

SITE DEVELOPMENT PLANS FOR:



STORE NUMBER: 10816  
1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756  
NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 19 NORTH, RANGE 30  
WEST, ZONED: C-2 (HIGHWAY COMMERCIAL DISTRICT)(ROGERS OVERLAY DISTRICT)

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VICINITY MAP  
NOT TO SCALE

SITE DISTURBED AREA = 1.97 AC.

PROJECT DIRECTORY

**OWNER**  
CVS/PHARMACY  
4808 DAVIS BLVD, N.  
NORTH RICHLAND HILLS, TX 76180  
(817) 605-8901  
CONTACT: MR. TOM MARTIN

**UTILITY CONTACT**  
CVS/PHARMACY  
(401) 770-7266  
CONTACT: MS. RAELENE HOPKINS

**DEVELOPER**  
BOOS DEVELOPMENT GROUP, INC.  
1120 S WALTON BLVD, SUITE 142  
BENTONVILLE, AR 72712  
(479) 845-4637  
CONTACT: MR. JOSH KNOTT

**CIVIL ENGINEER**  
FORESITE GROUP, INC.  
1999 BRYAN STREET, SUITE 890  
DALLAS, TX 75201  
(214) 939-7123  
CONTACT: MR. JOHN B. RHODES, JR., PE  
#15310

**ARCHITECT**  
GENESIS DESIGN GROUP, INC  
421 W HARWOOD ROAD  
HURST, TEXAS 76054  
(817) 285-7444  
CONTACT: MR. DAVID WOODWARD

UTILITY PROVIDERS

**WATER SERVICE PROVIDER**  
ROGERS WATER UTILITIES  
601 SOUTH 2ND ST.  
ROGERS, AR 72756  
(479) 621-1156  
CONTACT: MR. STEPHEN T. PONDER

**SANITARY SEWER SERVICE PROVIDER**  
ROGERS WATER UTILITIES  
601 SOUTH 2ND ST.  
ROGERS, AR 72756  
(479) 621-1156  
CONTACT: MR. STEPHEN PONDER

**ELECTRICAL SERVICE PROVIDER**  
SWEPCO  
415 W STIBLING DR.  
ROGERS, AR 72764  
(479) 986-1004  
CONTACT: MR. MARK K. BEASLEY

**SURVEYOR**  
OZARK CIVIL ENGINEERING, INC.  
3214 N.W. AVIGNON WAY, SUITE 4  
BENTONVILLE, AR 72712  
(479) 464-8850  
CONTACT: MR. RICK DAYTON

**GEOTECHNICAL ENGINEER**  
PROFESSIONAL SERVICE INDUSTRIES, INC.  
4161 RIDGEMOOR AVENUE  
MEMPHIS, TN 38118  
(901) 365-1802  
CONTACT: MR. MATTHEW DORSEY

**LOCAL ISSUING AUTHORITY**  
CITY OF ROGERS  
301 W CHESTNUT ST  
ROGERS, AR 72756  
(479) 621-1186  
CONTACT: MS. LORI ERICSON

**DEPARTMENT OF TRANSPORTATION**  
ARKANSAS STATE HIGHWAY &  
TRANSPORTATION DEPARTMENT  
4590 HIGHWAY 65  
HARRISON, AR 72602  
(870) 743-2100  
CONTACT: MR. BOBBY KEETON

**GAS SERVICE PROVIDER**  
SOURCEGAS  
1255 N 13TH ST.  
ROGERS, AR 72757  
(479) 877-0430  
CONTACT: MR. KENNETH PETERS

**TELEPHONE SERVICE PROVIDER**  
AT&T  
1133 EAST HAROLD ST.  
FAYETTEVILLE, AR 72703  
(479) 249-5194  
CONTACT: MR. ANTHONY B. WILLIAMS



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE

CS PROJECT NUMBER: 073620

ENGINEER:



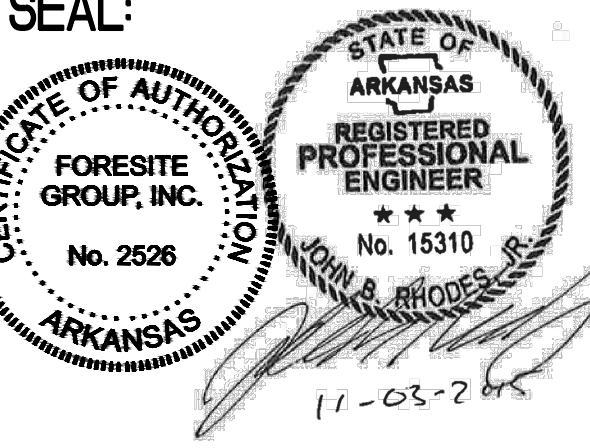
Foresite Group, Inc.  
1999 Bryan St.  
Suite 890  
Dallas, TX 75201  
o | 214.939.7123  
f | 888.765.8135  
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CONSULTANT:

DEVELOPER:



SEAL:



REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE:

COVER

SHEET NUMBER:

G-1

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION

PREPARED BY:



Foresite Group, Inc.  
1999 Bryan Street  
Suite 890  
Dallas, TX 75201  
o | 972.939.7123  
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24 HR CONTACT:  
MR. JOHN B. RHODES, JR., PE #15310  
(214) 939-7123

ISSUED:  
NOVEMBER 13, 2015  
163.257



GENERAL NOTES

- A. DESIGN DATA PROVIDED IN ELECTRONIC FORMAT IS FOR INFORMATION PURPOSES ONLY AND SHOULD BE USED IN CONJUNCTION WITH REPRESENTATIONS AND RELATED APPURTENANCES AS REQUIRED WITH THE LOCAL SANITARY SEWER AUTHORITY BEFORE STARTING CONSTRUCTION.
- B. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE BEGINNING SANITARY SEWER INSTALLATION OPERATIONS. FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS BY POT-HOLING THE LINES, SURVEY EXISTING UTILITIES AND PROVIDE HORIZONTAL AND VERTICAL LOCATION INFORMATION TO THE ENGINEER TO DETERMINE OF ANY UTILITIES WILL CONFLICT WITH THE PROPOSED DESIGN.
- 2.) DUCTILE-IRON GRAVITY SEWER PIPE AND FITTINGS
- A. PIPE: ASTM A 746, FOR PUSH-ON JOINTS.
- B. COMPACT FITTINGS: AWWA C153, DUCTILE IRON, FOR PUSH-ON JOINTS.
- C. GASKETS: AWWA C111, RUBBER.
- 3.) PVC PIPE AND FITTINGS
- A. PVC GRAVITY SEWER PIPING: ASTM F 679, 1-1 WALL THICKNESS. PVC GRAVITY SEWER PIPE WITH BELL-AND-SPIGOT ENDS AND WITH INTEGRAL ASTM F 477, ELASTOMERIC SEALS FOR GASKETED JOINTS.
- 4.) CLEANOUTS
- A. CAST-IRON CLEANOUTS:
1. DESCRIPTION: ASME A112 38.2M, ROUND, GRAY-IRON HOUSING WITH CLAMPING DEVICE AND ROUND, SECURED, SCORATED, GRAY-IRON COVER. INCLUDE GRAY-IRON FERRULE WITH INSIDE CALK OR SPIGOT CONNECTION AND COUNTERSUNK, TAPERED-THREAD, BRASS CLOSURE PLUG.
2. TOP-LOADING CLASSIFICATION: TRAFFIC RATED, HEAVY DUTY, IN ALL PAVED AREAS AND AREAS SUBJECT TO VEHICULAR TRAFFIC.
3. SEWER PIPE FITTING AND RISER TO CLEANOUT: ASTM A 74, SERVICE CLASS, CAST-IRON SLOPE PIPE AND FITTINGS.
- B. PVC CLEANOUTS: PVC BODY WITH PVC THREADED PLUG. INCLUDE PVC SEWER PIPE FITTING AND RISER TO CLEANOUT OF SAME MATERIAL AS SEWER PIPING. USE IN LIGHT DUTY APPLICATIONS WHERE THERE IS PEDESTRIAN TRAFFIC ONLY OR IN LANDSCAPED AREAS.
- A. STANDARD PRECAST CONCRETE MANHOLES:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
2. DIAMETER: 48 INCHES MINIMUM UNLESS OTHERWISE INDICATED.
3. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS OR ADD CONCRETE TO BASE SECTION, AS REQUIRED TO PREVENT FLOTATION.
4. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, WITH SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
5. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, OF LENGTH TO PROVIDE DEPTH INDICATED.
6. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED. TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
7. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
8. RESILIENT PIPE CONNECTORS: ASTM C 923, CAST OR FITTED INTO MANHOLE WALLS, FOR EACH PIPE CONNECTION.
9. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF MANHOLE TO FINISHED GRADE IS LESS THAN 48 INCHES.
10. ADJUSTING RINGS: INTERLOCKING HDPE RINGS, WITH LEVEL OR SLOPED EDGE IN THICKNESS AND DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE. INCLUDE SEALANT RECOMMENDED BY RING MANUFACTURER.
11. GRADE RINGS: REINFORCED-CONCRETE RINGS, 6- TO 9-INCH TOTAL THICKNESS, WITH DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE.
- B. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER, WITH 4-INCH- MINIMUM-WIDTH FLANGE AND 26-INCH- DIAMETER COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING WORDING EQUIVALENT TO "SANITARY SEWER."
2. MATERIAL: ASTM A 536, GRADE 60-40-18 DUCTILE IRON UNLESS OTHERWISE INDICATED.
- 7.) INLET & JUNCTION BOXES
- A. STANDARD PRECAST CONCRETE:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
2. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, AND SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
3. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, 48-INCH DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED.
4. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED. TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
5. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
6. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF CATCH BASIN TO FINISHED GRADE IS LESS THAN 48 INCHES.
7. PIPE CONNECTORS: ASTM C 923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO BASE SECTION.
- 8.) STORMWATER DETENTION STRUCTURES
- A. CAST-IN-PLACE CONCRETE, STORMWATER DETENTION STRUCTURES: CONSTRUCTED OF REINFORCED-CONCRETE BOTTOM, WALLS, AND TOP; DESIGNED ACCORDING TO ASTM C 890 FOR A-16 (ASHTO H520-44), HEAVY-TRAFFIC, STRUCTURAL LOADING; OF DEPTH, SHAPE, DIMENSIONS, AND APPURTENANCES INDICATED.
1. BALLAST: INCREASE THICKNESS OF CONCRETE AS REQUIRED TO PREVENT FLOTATION.
2. GRADE RINGS: INCLUDE TWO OR THREE REINFORCED-CONCRETE RINGS, OF 6- TO 9-INCH TOTAL THICKNESS, THAT MATCH 24-INCH- DIAMETER FRAME AND COVER.
3. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF CATCH BASIN TO FINISHED GRADE IS LESS THAN 48 INCHES.
4. FORM AND CAST WIERS AND PIPE OPENINGS AS INDICATED ON DRAWINGS.
- B. MANHOLE FRAMES AND COVERS: ASTM A 536, GRADE 60-40-18, DUCTILE-IRON CASTINGS DESIGNED FOR HEAVY-DUTY SERVICE.
- 9.) PIPE OUTLETS
- A. PRE-CAST HEAD WALLS: PRE-CAST REINFORCED CONCRETE, WITH APRON AND TAPERED SIDES.
- B. SLOPE PAVED HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE AS SHOWN ON DRAWINGS.
- C. RIPRAP BASINS: BRICKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE ACCORDING TO NSSDA'S QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL. MINIMUM STONE SIZE AND DIMENSIONS AS SHOWN ON DRAWINGS.
- 10.) PIPING INSTALLATION
- A. INSTALL LOCATOR WIRE OR TAPE 6-INCHES ABOVE ALL NON-METALLIC PIPING.
- B. INSTALL BEDDING AND BACKFILL IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS.
- C. BEGIN INSTALLATION AT DOWNSTREAM PIPING CONNECTION TO OUTFALL POINT.
- D. CONSTRUCT ALL HEADWALLS FLUSH WITH EXISTING AND PROPOSED EMBANKMENT SLOPES.
- 11.) CLEANING
- A. CLEAN INTERIOR OF PIPING OF DIRT AND SUPERFLUOUS MATERIALS.

TRAFFIC CONTROL

- A. IF DRAWINGS DO NOT INDICATE SITE SPECIFIC TRAFFIC CONTROL MEASURES, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TEMPORARY TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- B. ALL TEMPORARY TRAFFIC CONTROL, SIGNAGE AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE MUTCD, LATEST EDITION.
- C. CONTACT PROPERTY OWNERS TO BE AFFECTED BY CONSTRUCTION AND COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.
- D. CONTROL DUST AS NECESSARY TO PREVENT INTERFERENCE WITH TRAFFIC.
- E. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.
- F. COORDINATE ALL LANE CLOSURES WITH THE LOCAL JURISDICTION HAVING AUTHORITY.
- STRUCTURE & SITE DEMOLITION
- A. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS.
- B. VERIFY THAT HAZARDOUS MATERIALS HAVE BEEN REMEDIATED BEFORE PROCEEDING WITH BUILDING DEMOLITION OPERATIONS.
- C. ENVIRONMENTAL & GEOTECHNICAL: REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS AN BECOME FAMILIAR WITH ALL ISSUES BEFORE DEMOLITION.
- D. EXISTING UTILITIES: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED.
1. ARRANGE TO SHUT OFF INDICATED UTILITIES WITH UTILITY COMPANIES.
2. IF REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITY SERVICES WILL AFFECT ADJACENT OCCUPIED BUILDINGS, THEN PROVIDE TEMPORARY UTILITIES THAT BYPASS BUILDINGS AND STRUCTURES TO BE DEMOLISHED AND THAT MAINTAIN CONTINUITY OF SERVICE TO OTHER BUILDINGS AND STRUCTURES.
3. DO NOT COMMENCE DEMOLITION OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENT CONTROL, AND PLANT-PROTECTION MEASURES ARE IN PLACE.
4. OBTAIN THE DEMOLITION PERMIT FROM THE LOCAL AUTHORITY PRIOR TO STARTING DEMOLITION ACTIVITIES.
5. EXISTING FACILITIES: PROTECT ADJACENT WALKWAYS, LOADING DOCKS, BUILDING ENTRIES, AND OTHER BUILDING FACILITIES DURING DEMOLITION OPERATIONS. MAINTAIN EXITS FROM EXISTING BUILDINGS. PROMPTLY REPAIR ANY FACILITIES DAMAGED BY CONSTRUCTION OPERATIONS TO OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
6. EXISTING UTILITIES: MAINTAIN UTILITY SERVICES TO REMAIN AND PROTECT FROM DAMAGE DURING DEMOLITION OPERATIONS.
7. TEMPORARY PROTECTION: ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND AS INDICATED.
8. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST. WHERE OPEN EXCAVATIONS OR OTHER HAZARDOUS CONDITIONS REMAIN, LEAVE TEMPORARY BARRIERS AND PROTECTIONS IN PLACE.
9. REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
10. DO NOT BURN DEMOLISHED MATERIALS UNLESS SPECIAL WRITTEN PERMISSION IS OBTAINED FROM OWNER AND ENGINEER.
11. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE BUILDING DEMOLITION OPERATIONS BEGAN.

SITE CLEARING

- 1.) PROJECT CONDITIONS
- A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS.
- B. ENVIRONMENTAL & GEOTECHNICAL: REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS AND BECOME FAMILIAR WITH ALL ISSUES BEFORE SITE CLEARING.
- C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING.
- D. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROL AND PLANT-PROTECTION MEASURES ARE IN PLACE.
- 2.) TEMPORARY EROSION AND SEDIMENTATION CONTROL
- A. PROVIDE TEMPORARY EROSION- AND SEDIMENTATION-CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO EROSION- AND SEDIMENTATION-CONTROL DRAWINGS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- B. VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS PROTECTION ZONES.
- C. INSPECT, MAINTAIN, AND REPAIR EROSION- AND SEDIMENTATION-CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- D. REMOVE EROSION AND SEDIMENTATION CONTROLS WHEN SITE IS STABILIZED AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.
- 3.) TREE AND PLANT PROTECTION
- A. REPAIR OR REPLACE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR BE RELOCATED THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS, IN A MANNER APPROVED BY ENGINEER.
- 4.) EXISTING UTILITIES
- A. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP UTILITIES INDICATED TO BE REMOVED OR ABANDONED IN PLACE. ARRANGE WITH UTILITY COMPANIES TO SHUT OFF INDICATED UTILITIES.
- B. INTERRUPTING EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED.
1. NOTIFY UTILITY OWNER NOT LESS THAN TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.
2. DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT UTILITY OWNER'S WRITTEN PERMISSION.
- C. POTHOLE EXISTING WATER LINES, UNDERGROUND ELECTRICAL LINES, GAS LINES, UNDERGROUND TELEPHONE LINES, FIBER OPTIC, AND ANY OTHER EXISTING UTILITY LINES WITHIN THE PROJECT LIMITS DURING SITE CLEARING AND DEMOLITION ACTIVITIES. SURVEY THE EXISTING UTILITY ELEVATIONS AND PROVIDE THE SURVEYED FIELD LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW. THESE EXISTING UTILITIES MAY REQUIRE RELOCATION.
- 5.) CLEARING AND GRUBBING
- A. REMOVE OBSTRUCTIONS, CONCRETE, ASPHALT, TREES, SHRUBS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION.
- B. DO NOT REMOVE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE RELOCATED.
- C. GRIND DOWN STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS TO A DEPTH OF 12 INCHES BELOW EXPOSED SUBGRADE.
3. USE ONLY HAND METHODS FOR GRUBBING WITHIN PROTECTION ZONES.
4. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING CLEARING AND GRUBBING ACTIVITIES.
- 6.) TOPSOIL STRIPPING
- A. REMOVE SOIL AND GRASS BEFORE STRIPPING TOPSOIL.
- B. STRIP TOPSOIL IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
- C. STOCKPILE TOPSOIL AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST AND EROSION BY WATER.
- D. DISPOSE OF SURPLUS TOPSOIL. SURPLUS TOPSOIL IS THAT WHICH EXCEEDS QUANTITY INDICATED TO BE STOCKPILED OR REUSED.

SITE WATER DISTRIBUTION

- 1.) GENERAL
- A. INTERUPTION OF EXISTING SANITARY SEWERAGE SERVICE: COORDINATE AS REQUIRED WITH THE LOCAL SANITARY SEWER AUTHORITY BEFORE STARTING CONSTRUCTION.
- B. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE BEGINNING SANITARY SEWER INSTALLATION OPERATIONS. FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS BY POT-HOLING THE LINES, SURVEY EXISTING UTILITIES AND PROVIDE HORIZONTAL AND VERTICAL LOCATION INFORMATION TO THE ENGINEER TO DETERMINE OF ANY UTILITIES WILL CONFLICT WITH THE PROPOSED DESIGN.
- 2.) DUCTILE-IRON GRAVITY SEWER PIPE AND FITTINGS
- A. PIPE: ASTM A 746, FOR PUSH-ON JOINTS.
- B. COMPACT FITTINGS: AWWA C153, DUCTILE IRON, FOR PUSH-ON JOINTS.
- C. GASKETS: AWWA C111, RUBBER.
- 3.) PVC PIPE AND FITTINGS
- A. PVC GRAVITY SEWER PIPING: ASTM F 679, 1-1 WALL THICKNESS. PVC GRAVITY SEWER PIPE WITH BELL-AND-SPIGOT ENDS AND WITH INTEGRAL ASTM F 477, ELASTOMERIC SEALS FOR GASKETED JOINTS.
- 4.) CLEANOUTS
- A. CAST-IRON CLEANOUTS:
1. DESCRIPTION: ASME A112 38.2M, ROUND, GRAY-IRON HOUSING WITH CLAMPING DEVICE AND ROUND, SECURED, SCORATED, GRAY-IRON COVER. INCLUDE GRAY-IRON FERRULE WITH INSIDE CALK OR SPIGOT CONNECTION AND COUNTERSUNK, TAPERED-THREAD, BRASS CLOSURE PLUG.
2. TOP-LOADING CLASSIFICATION: TRAFFIC RATED, HEAVY DUTY, IN ALL PAVED AREAS AND AREAS SUBJECT TO VEHICULAR TRAFFIC.
3. SEWER PIPE FITTING AND RISER TO CLEANOUT: ASTM A 74, SERVICE CLASS, CAST-IRON SLOPE PIPE AND FITTINGS.
- B. PVC CLEANOUTS: PVC BODY WITH PVC THREADED PLUG. INCLUDE PVC SEWER PIPE FITTING AND RISER TO CLEANOUT OF SAME MATERIAL AS SEWER PIPING. USE IN LIGHT DUTY APPLICATIONS WHERE THERE IS PEDESTRIAN TRAFFIC ONLY OR IN LANDSCAPED AREAS.
- A. STANDARD PRECAST CONCRETE MANHOLES:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
2. DIAMETER: 48 INCHES MINIMUM UNLESS OTHERWISE INDICATED.
3. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS OR ADD CONCRETE TO BASE SECTION, AS REQUIRED TO PREVENT FLOTATION.
4. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, WITH SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
5. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, OF LENGTH TO PROVIDE DEPTH INDICATED.
6. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED. TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
7. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
8. RESILIENT PIPE CONNECTORS: ASTM C 923, CAST OR FITTED INTO MANHOLE WALLS, FOR EACH PIPE CONNECTION.
9. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF MANHOLE TO FINISHED GRADE IS LESS THAN 48 INCHES.
10. ADJUSTING RINGS: INTERLOCKING HDPE RINGS, WITH LEVEL OR SLOPED EDGE IN THICKNESS AND DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE. INCLUDE SEALANT RECOMMENDED BY RING MANUFACTURER.
11. GRADE RINGS: REINFORCED-CONCRETE RINGS, 6- TO 9-INCH TOTAL THICKNESS, WITH DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE.
- B. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER, WITH 4-INCH- MINIMUM-WIDTH FLANGE AND 26-INCH- DIAMETER COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING WORDING EQUIVALENT TO "SANITARY SEWER."
2. MATERIAL: ASTM A 536, GRADE 60-40-18 DUCTILE IRON UNLESS OTHERWISE INDICATED.
- 6.) IDENTIFICATION
- A. ARRANGE FOR INSTALLATION OF GREEN WARNING TAPES DIRECTLY OVER PIPING AND AT UNDERGROUND EDGES OF UNDERGROUND MANHOLES.
1. USE WARNING TAPE OR DETECTABLE WARNING TAPE OVER FERROUS PIPING.
2. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING AND OVER EDGES OF UNDERGROUND MANHOLES.
- 7.) FIELD QUALITY CONTROL
- A. INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INSPECT AFTER APPROXIMATELY 24 INCHES OF BACKFILL IS IN PLACE, AND AGAIN AT COMPLETION OF PROJECT.
1. DEFECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:
- a. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES.
- b. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 92.5 PERCENT OF PIPING DIAMETER.
- c. DAMAGE: CRUSHED, BROKEN, CRACKED, OR OTHERWISE DAMAGED PIPING.
- d. INFILTRATION: WATER LEAKAGE INTO PIPING.
- e. EXFILTRATION: WATER LEAKAGE FROM OR AROUND PIPING.
2. REPAIR DEFECTIVE PIPING USING NEW MATERIALS, AND REPEAT INSPECTIONS UNTIL DEFECTS ARE WITHIN ALLOWANCES SPECIFIED.
3. REINSPECT AND REPEAT PROCEDURE UNTIL RESULTS ARE SATISFACTORY.
- B. TEST NEW PIPING SYSTEMS, AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED, FOR LEAKS AND DEFECTS.
1. DO NOT ENCLOSE, COVER, OR PUT INTO SERVICE BEFORE INSPECTION AND APPROVAL.
2. TEST COMPLETED PIPING SYSTEMS ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. SCHEDULE TESTS AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION WITH AT LEAST 24 HOURS ADVANCE NOTICE.
4. SUBMIT A SEPARATE REPORT FOR EACH TEST TO THE ENGINEER FOR APPROVAL.
5. AIR TESTS: TEST SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, UN18-6, AND THE FOLLOWING:
- a. TEST PLASTIC GRAVITY SEWER PIPING ACCORDING TO ASTM F 1417.
- b. MANHOLES: PERFORM HYDRAULIC TEST ACCORDING TO ASTM C 969.
- C. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
- D. REPLACE LEAKING PIPING USING NEW MATERIALS, AND REPEAT TESTING UNTIL LEAKAGE IS WITHIN ALLOWANCES SPECIFIED.
- 10.) FIRE HYDRANTS
- A. DRY-BARREL FIRE HYDRANTS: FREESTANDING, WITH ONE NPS 4-1/2 AND TWO NPS 2-1/2 OUTLETS, 5-1/4-INCH MAIN VALVE, DRAIN VALVE, AND NPS 6 MECHANICAL-JOINT INLET. INCLUDE INTERIOR COATING ACCORDING TO AWWA C550. HYDRANT SHALL HAVE CAST-IRON BODY, COMPRESSION-TYPE VALVE OPENING AGAINST PRESSURE AND CLOSING WITH PRESSURE.
1. STANDARD: AWWA C502.
2. PRESSURE RATING: 250 PSIG.
- 11.) FIRE DEPARTMENT CONNECTIONS
- A. FIRE DEPARTMENT CONNECTIONS: FREESTANDING, WITH CAST-BRONZE BODY, THREAD INLETS ACCORDING TO NFPA 1963 AND MATCHING LOCAL FIRE DEPARTMENT HOSE THREADS, AND THREADED BOTTOM OUTLET. INCLUDE LUGGED CAPS, GASKETS, AND CHAINS; LUGGED SWIVEL CONNECTION AND DROP CLAPPER FOR EACH HOSE-CONNECTION INLET; 18-INCH- HIGH BRASS SLEEVE; AND ROUND ESCUTCHEON PLATE.
- 12.) VALVE APPLICATIONS
- A. DRAWINGS INDICATE VALVE TYPES TO BE USED. WHERE SPECIFIC VALVE TYPES ARE NOT INDICATED, THE FOLLOWING REQUIREMENTS APPLY:
1. UNDERGROUND VALVES: NPS 3 AND LARGER: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEATED GATE VALVES WITH VALVE BOX.
2. USE THE FOLLOWING FOR VALVES IN VAULTS AND ABOVEGROUND:
- a. GATE VALVES, NPS 2 AND SMALLER: BRONZE, NONRISING STEM.
- b. GATE VALVES, NPS 3 AND LARGER: AWWA, CAST IRON, OS&Y RISING STEM, RESILIENT SEATED.
- c. CHECK VALVES: AWWA C508, SWING TYPE.
- 13.) FIELD QUALITY CONTROL
- A. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER CONCRETE THURUST BLOCKS HAVE HARDENED SUFFICIENTLY. FILL PIPELINE 24 HOURS BEFORE TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.
- B. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE FOR TWO HOURS. INCREASE PRESSURE IN 50-PSIG INCREMENTS AND INSPECT EACH JOINT BETWEEN INCREMENTS. HOLD AT TEST PRESSURE FOR 1 HOUR; DECREASE TO 0 PSIG. SLOWLY INCREASE AGAIN TO TEST PRESSURE AND HOLD FOR 1 MORE HOUR. MAXIMUM ALLOWABLE LEAKAGE IS 2 QUARTS PER HOUR PER 100 JOINTS. REMAKE LEAKING JOINTS WITH NEW MATERIALS AND REPEAT TEST UNTIL LEAKAGE IS WITHIN ALLOWED LIMITS.
- C. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY. OR, IF METHOD IS NOT PRESCRIBED BY THE LOCAL AUTHORITY, USE PROCEDURE DESCRIBED IN AWWA C651.
- D. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL.
- 14.) IDENTIFICATION
- A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER-DISTRIBUTION PIPING. LOCATE BELOW FINISHED GRADE, DIRECTLY OVER PIPING.

SITE SANITARY SEWERS

- 1.) PROJECT CONDITIONS
- A. INTERUPTION OF EXISTING SANITARY SEWERAGE SERVICE: COORDINATE AS REQUIRED WITH THE LOCAL SANITARY SEWER AUTHORITY BEFORE STARTING CONSTRUCTION.
- B. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE BEGINNING SANITARY SEWER INSTALLATION OPERATIONS. FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS BY POT-HOLING THE LINES, SURVEY EXISTING UTILITIES AND PROVIDE HORIZONTAL AND VERTICAL LOCATION INFORMATION TO THE ENGINEER TO DETERMINE OF ANY UTILITIES WILL CONFLICT WITH THE PROPOSED DESIGN.
- 2.) DUCTILE-IRON GRAVITY SEWER PIPE AND FITTINGS
- A. PIPE: ASTM A 746, FOR PUSH-ON JOINTS.
- B. COMPACT FITTINGS: AWWA C153, DUCTILE IRON, FOR PUSH-ON JOINTS.
- C. GASKETS: AWWA C111, RUBBER.
- 3.) PVC PIPE AND FITTINGS
- A. PVC GRAVITY SEWER PIPING: ASTM F 679, 1-1 WALL THICKNESS. PVC GRAVITY SEWER PIPE WITH BELL-AND-SPIGOT ENDS AND WITH INTEGRAL ASTM F 477, ELASTOMERIC SEALS FOR GASKETED JOINTS.
- 4.) CLEANOUTS
- A. CAST-IRON CLEANOUTS:
1. DESCRIPTION: ASME A112 38.2M, ROUND, GRAY-IRON HOUSING WITH CLAMPING DEVICE AND ROUND, SECURED, SCORATED, GRAY-IRON COVER. INCLUDE GRAY-IRON FERRULE WITH INSIDE CALK OR SPIGOT CONNECTION AND COUNTERSUNK, TAPERED-THREAD, BRASS CLOSURE PLUG.
2. TOP-LOADING CLASSIFICATION: TRAFFIC RATED, HEAVY DUTY, IN ALL PAVED AREAS AND AREAS SUBJECT TO VEHICULAR TRAFFIC.
3. SEWER PIPE FITTING AND RISER TO CLEANOUT: ASTM A 74, SERVICE CLASS, CAST-IRON SLOPE PIPE AND FITTINGS.
- B. PVC CLEANOUTS: PVC BODY WITH PVC THREADED PLUG. INCLUDE PVC SEWER PIPE FITTING AND RISER TO CLEANOUT OF SAME MATERIAL AS SEWER PIPING. USE IN LIGHT DUTY APPLICATIONS WHERE THERE IS PEDESTRIAN TRAFFIC ONLY OR IN LANDSCAPED AREAS.
- A. STANDARD PRECAST CONCRETE MANHOLES:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
2. DIAMETER: 48 INCHES MINIMUM UNLESS OTHERWISE INDICATED.
3. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS OR ADD CONCRETE TO BASE SECTION, AS REQUIRED TO PREVENT FLOTATION.
4. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, WITH SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
5. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, OF LENGTH TO PROVIDE DEPTH INDICATED.
6. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED. TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
7. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
8. RESILIENT PIPE CONNECTORS: ASTM C 923, CAST OR FITTED INTO MANHOLE WALLS, FOR EACH PIPE CONNECTION.
9. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF MANHOLE TO FINISHED GRADE IS LESS THAN 48 INCHES.
10. ADJUSTING RINGS: INTERLOCKING HDPE RINGS, WITH LEVEL OR SLOPED EDGE IN THICKNESS AND DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE. INCLUDE SEALANT RECOMMENDED BY RING MANUFACTURER.
11. GRADE RINGS: REINFORCED-CONCRETE RINGS, 6- TO 9-INCH TOTAL THICKNESS, WITH DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE.
- B. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER, WITH 4-INCH- MINIMUM-WIDTH FLANGE AND 26-INCH- DIAMETER COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING WORDING EQUIVALENT TO "SANITARY SEWER."
2. MATERIAL: ASTM A 536, GRADE 60-40-18 DUCTILE IRON UNLESS OTHERWISE INDICATED.
- 6.) IDENTIFICATION
- A. ARRANGE FOR INSTALLATION OF GREEN WARNING TAPES DIRECTLY OVER PIPING AND AT UNDERGROUND EDGES OF UNDERGROUND MANHOLES.
1. USE WARNING TAPE OR DETECTABLE WARNING TAPE OVER FERROUS PIPING.
2. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING AND OVER EDGES OF UNDERGROUND MANHOLES.
- 7.) FIELD QUALITY CONTROL
- A. INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INSPECT AFTER APPROXIMATELY 24 INCHES OF BACKFILL IS IN PLACE, AND AGAIN AT COMPLETION OF PROJECT.
1. DEFECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:
- a. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES.
- b. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 92.5 PERCENT OF PIPING DIAMETER.
- c. DAMAGE: CRUSHED, BROKEN, CRACKED, OR OTHERWISE DAMAGED PIPING.
- d. INFILTRATION: WATER LEAKAGE INTO PIPING.
- e. EXFILTRATION: WATER LEAKAGE FROM OR AROUND PIPING.
2. REPAIR DEFECTIVE PIPING USING NEW MATERIALS, AND REPEAT INSPECTIONS UNTIL DEFECTS ARE WITHIN ALLOWANCES SPECIFIED.
3. REINSPECT AND REPEAT PROCEDURE UNTIL RESULTS ARE SATISFACTORY.
- B. TEST NEW PIPING SYSTEMS, AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED, FOR LEAKS AND DEFECTS.
1. DO NOT ENCLOSE, COVER, OR PUT INTO SERVICE BEFORE INSPECTION AND APPROVAL.
2. TEST COMPLETED PIPING SYSTEMS ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. SCHEDULE TESTS AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION WITH AT LEAST 24 HOURS ADVANCE NOTICE.
4. SUBMIT A SEPARATE REPORT FOR EACH TEST TO THE ENGINEER FOR APPROVAL.
5. AIR TESTS: TEST SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, UN18-6, AND THE FOLLOWING:
- a. TEST PLASTIC GRAVITY SEWER PIPING ACCORDING TO ASTM F 1417.
- b. MANHOLES: PERFORM HYDRAULIC TEST ACCORDING TO ASTM C 969.
- C. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
- D. REPLACE LEAKING PIPING USING NEW MATERIALS, AND REPEAT TESTING UNTIL LEAKAGE IS WITHIN ALLOWANCES SPECIFIED.

SITE STORM UTILITY DRAINAGE PIPING

- 1.) PIPE AND FITTINGS- GENERAL
- A. ALL STORMWATER PIPE, INLETS, HEADWALLS, AND RELATED APPURTENANCES SHALL MEET LOCAL D.O.T. STANDARDS.
- B. ALL STORMWATER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS.
- 2.) STEEL PIPE AND FITTINGS
- A. CORRUGATED-STEEL PIPE AND FITTINGS: ASTM A 760/A 760M, TYPE I WITH FITTINGS OF SIMILAR FORM AND CONSTRUCTION AS PIPE.
1. STANDARD JOINT BANDS: CORRUGATED STEEL.
2. COATING: ALUMINUM OR BITUMINOUS.
- 3.) PE PIPE AND FITTINGS
- A. CORRUGATED PE DRAINAGE PIPE AND FITTINGS NPS 3 TO NPS 10: ASHTO M 252M, NPS 12 TO NPS 48: ASHTO M 284M TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS.
- B. SLITLIGHT COUPLINGS: PE SLEEVE WITH ASTM D 1056, TYPE 2, CLASS A, GRADE 2 GASKET MATERIAL THAT MATES WITH TUBE AND FITTINGS.
- 4.) PVC CORRUGATED PIPE AND FITTINGS
- A. CORRUGATED PVC DRAINAGE PIPE AND FITTINGS NPS 4 TO NPS 36: SMOOTH INTERIOR, ASTM F949, 46 PSI STIFFNESS WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PVC COMPOUND HAVING A MINIMUM CELL CLASSIFICATION OF 12454 AS DEFINED IN ASTM D1784. FITTINGS: SMOOTH INTERIOR, ASTM F949, SECTION 6.2.3 OR F794, SECTION 7.2.4. JOINTS SHALL BE MADE WITH INTEGRALLY-FORMED BELL AND SPIGOT GASKETED CONNECTIONS. MANUFACTURER SHALL PROVIDE DOCUMENTATION SHOWING NO LEAKAGE WHEN GASKETED PIPE JOINTS ARE TESTED IN ACCORDANCE WITH ASTM D3212. ELASTOMERIC SEALS (GASKETS) SHALL MEET ASTM F417.
- 5.) CONCRETE PIPE AND FITTINGS
- A. REINFORCED-CONCRETE SEWER PIPE AND FITTINGS: ASTM C 76, BELL-AND-SPIGOT OR TONGUE-AND-GROOVE ENDS AND GASKETED JOINTS WITH ASTM C 443, RUBBER GASKETS OR SEALANT JOINTS WITH ASTM C 990, BITUMEN OR BUTYL RUBBER SEALANT. CLASS III, WNSI B.
- B. CAST-IRON AREA DRAINS: ASME A112.6.3 GRAY-IRON ROUND BODY WITH ANCHOR FLANGE AND ROUND GRATE. INCLUDE BOTTOM OUTLET WITH INSIDE CALK OR SPIGOT CONNECTION, OF SIZES INDICATED.
- 6.) MANHOLES
- A. STANDARD PRECAST CONCRETE MANHOLES:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
2. DIAMETER: 48 INCHES MINIMUM UNLESS OTHERWISE INDICATED.
3. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS OR ADD CONCRETE TO BASE SECTION, AS REQUIRED TO PREVENT FLOTATION.
4. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, AND SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
5. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, AND LENGTHS TO PROVIDE DEPTH INDICATED.
6. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED. TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
7. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
8. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF CATCH BASIN TO FINISHED GRADE IS LESS THAN 48 INCHES.
9. PIPE CONNECTORS: ASTM C 923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO BASE SECTION.
- 8.) STORMWATER DETENTION STRUCTURES
- A. CAST-IN-PLACE CONCRETE, STORMWATER DETENTION STRUCTURES: CONSTRUCTED OF REINFORCED-CONCRETE BOTTOM, WALLS, AND TOP; DESIGNED ACCORDING TO ASTM C 890 FOR A-16 (ASHTO H520-44), HEAVY-TRAFFIC, STRUCTURAL LOADING; OF DEPTH, SHAPE, DIMENSIONS, AND APPURTENANCES INDICATED.
1. BALLAST: INCREASE THICKNESS OF CONCRETE AS REQUIRED TO PREVENT FLOTATION.
2. GRADE RINGS: INCLUDE TWO OR THREE REINFORCED-CONCRETE RINGS, OF 6- TO 9-INCH TOTAL THICKNESS, THAT MATCH 24-INCH- DIAMETER FRAME AND COVER.
3. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF CATCH BASIN TO FINISHED GRADE IS LESS THAN 48 INCHES.
4. FORM AND CAST WIERS AND PIPE OPENINGS AS INDICATED ON DRAWINGS.
- B. MANHOLE FRAMES AND COVERS: ASTM A 536, GRADE 60-40-18, DUCTILE-IRON CASTINGS DESIGNED FOR HEAVY-DUTY SERVICE.
- 9.) PIPE OUTLETS
- A. PRE-CAST HEAD WALLS: PRE-CAST REINFORCED CONCRETE, WITH APRON AND TAPERED SIDES.
- B. SLOPE PAVED HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE AS SHOWN ON DRAWINGS.
- C. RIPRAP BASINS: BRICKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE ACCORDING TO NSSDA'S QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL. MINIMUM STONE SIZE AND DIMENSIONS AS SHOWN ON DRAWINGS.
- 10.) PIPING INSTALLATION
- A. INSTALL LOCATOR WIRE OR TAPE 6-INCHES ABOVE ALL NON-METALLIC PIPING.
- B. INSTALL BEDDING AND BACKFILL IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS.
- C. BEGIN INSTALLATION AT DOWNSTREAM PIPING CONNECTION TO OUTFALL POINT.
- D. CONSTRUCT ALL HEADWALLS FLUSH WITH EXISTING AND PROPOSED EMBANKMENT SLOPES.
- 11.) CLEANING
- A. CLEAN INTERIOR OF PIPING OF DIRT AND SUPERFLUOUS MATERIALS.

CVS

pharmacy

STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE

CS PROJECT NUMBER: 073620

ENGINEER:

FORESITE

group

Foresite Group, Inc.  
1999 Bryan St.  
Suite 890  
Dallas, TX 75201

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CONSULTANT:

DEVELOPER:

BOOS

DEVELOPMENT GROUP

BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL: (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:

OFFICE OF AUTHORITY

FORESITE GROUP, INC.

No. 2526

ARKANSAS

STATE OF ARKANSAS

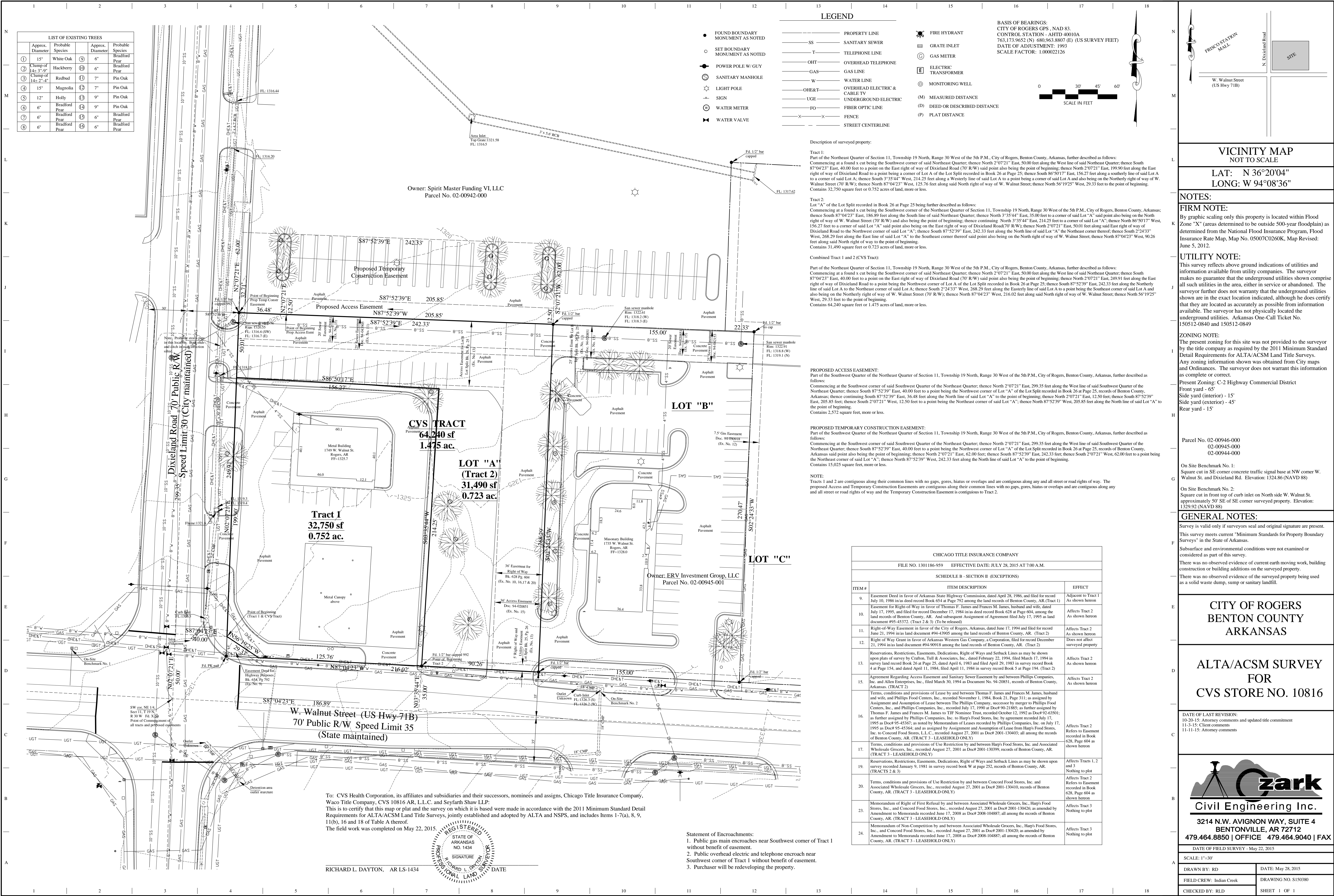
REGISTERED PROFESSIONAL ENGINEER

No. 15











GENERAL NOTES:

- 1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEMOLITION PERMIT FROM CITY OF ROGERS PRIOR TO DEMOLITION OF THE SITE.
- 2) ALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY WORK INCLUDING DEMOLITION.
- 3) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4) REMOVE SHRUBS AND TREES AS NOTED. GRUB OUT ROOTS AND STUMPS AND LEGALLY DISPOSE OF DEBRIS.

DEMOLITION NOTES:

- 1) ALL NEW WORK SHOWN IN THESE SHEETS SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES.
- 2) ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES EXCEPT IN CASES WHERE, WITHIN CITY OF ROGERS JURISDICTION, THE COUNTY STANDARD SPECIFICATIONS ARE MORE STRINGENT.
- 3) THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND TO NOTIFY THE OWNER IN CASE OF DISCREPANCIES THAT AFFECT THE CONSTRUCTION PROJECT.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATION AND RELOCATION OF AND TIE-IN TO PUBLIC UTILITIES.
- 5) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO ANY ADJACENT STRUCTURES OR PROPERTY, OR ANY EXISTING STRUCTURES WITHIN LIMITS OF CONSTRUCTION THAT ARE DESIGNATED ON THE PLANS TO REMAIN, AND SHALL REPAIR OR REPLACE SUCH DAMAGED PROPERTY TO THE PROPERTY OWNER'S SATISFACTION AT NO COST TO THE OWNER.
- 6) THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER.
- 7) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF ROGERS AND ALL EXISTING UTILITY PROVIDERS BEFORE REMOVING ANY/ALL UTILITIES FROM THEIR EXISTING LOCATION ON THE SITE. THE CONTRACTOR SHALL PERFORM ALL UTILITY DEMOLITION OR RELOCATION ACTIVITIES IN ACCORDANCE WITH THE EXISTING UTILITIES SPECIFICATIONS, MATERIALS, AND REQUIREMENTS.
- 8) THE CONTRACTOR SHALL SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NECESSARY TO MAINTAIN ACCESS TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: BARRICADES, FLASHING LIGHTS, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE AS NECESSARY TO ACCOMPLISH THE WORK.
- 9) THE CONTRACTOR SHALL CONSIDER COORDINATION ASPECTS OF CRANES AND CONSTRUCTION EQUIPMENT OPERATIONS DURING DEMOLITION ACTIVITY.
- 10) THE CONTRACTOR'S EQUIPMENT SHALL NOT BE PARKED IN COUNTY, CITY OR STATE RIGHT-OF-WAY, AND MUST BE STORED WITHIN SITE.
- 11) THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ROGERS AS REQUIRED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.
- 12) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF ROGERS OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
- 13) ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 14) THE CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- 15) ALL ITEMS DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE.
- 16) THE CONTRACTOR SHALL CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.
- 17) THE CONTRACTOR SHALL POT HOLE EXISTING WATER LINE, UNDERGROUND ELECTRICAL LINES, GAS LINE, UNDERGROUND TELEPHONE, FIBER OPTIC, AND ANY OTHER UTILITY LINES WITHIN THE RIGHT OF WAY DURING DEMOLITION ACTIVITIES AND COORDINATE FIELD LOCATIONS AND DEPTHS OF THESE UTILITIES WITH ENGINEER FOR PROPOSED UTILITY CROSSINGS AND PROPOSED PAVEMENT OVER EXISTING LINES. THESE LINES MAY REQUIRE RELOCATION.

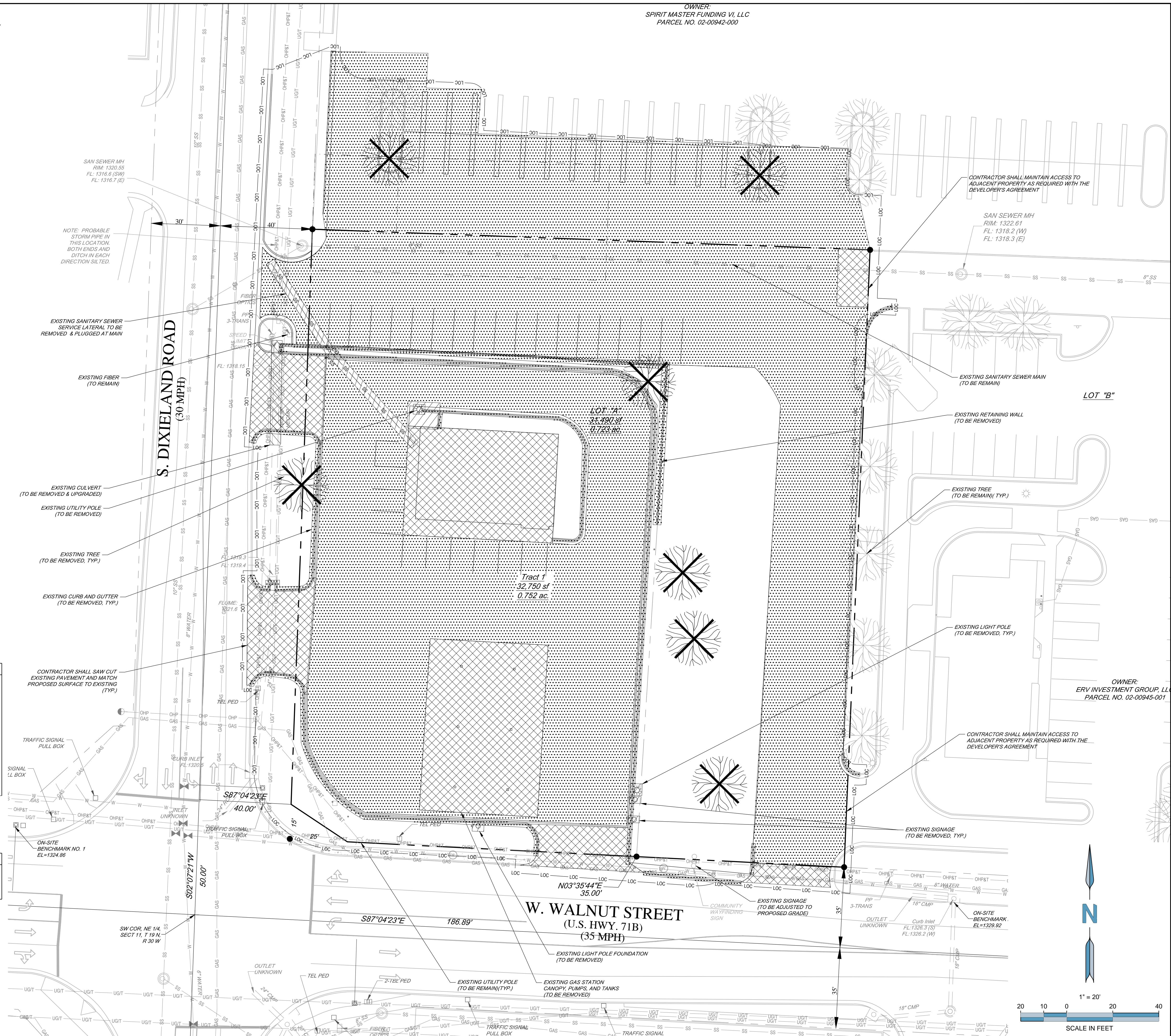
EROSION CONTROL NOTES

(SEE ALSO EROSION CONTROL PLAN)

- 1) EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CLEARING OR EARTHWORK OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ALL DISTURBED AREAS.
- 2) THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND SHALL PROTECT ADJACENT PAVEMENTS FROM SOIL ACCUMULATION DURING CONSTRUCTION.
- 3) ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE ENGINEER OR OTHER INSPECTORS AS DETERMINED BY FIELD CONDITIONS.
- 4) CONTRACTOR SHALL BE FAMILIAR WITH AND FOLLOW ALL RECOMMENDATIONS GIVEN BY POLLUTION MANAGEMENT, INC. IN THE PHASE I REPORT DATED 08/21/2015, AND GEOTECHNICAL REPORT BY PROFESSIONAL SERVICE INDUSTRIES, INC. DATED 04/23/2015 DURING DEMOLITION AND SITE CONSTRUCTION.

LEGEND	
	UTILITIES, FENCE, AND/OR WALL TO BE REMOVED AND/OR RELOCATED. SEE NOTE FOR DETAIL.
	BUILDING/CONCRETE TO BE REMOVED
	ASPHALT, GRAVEL, AND/OR CURB & GUTTER TO BE REMOVED
	EXISTING FENCE
	PROPERTY LINE
	LIMITS OF DISTURBANCE
	EXISTING TREE TO BE REMOVED

EXISTING SITE DATA	
TOTAL SITE AREA =	1.97 AC.
EXISTING Pervious AREA =	0.00 AC.
EXISTING IMPervious AREA =	1.97 AC.



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE

CS PROJECT NUMBER: 073620

ENGINEER:



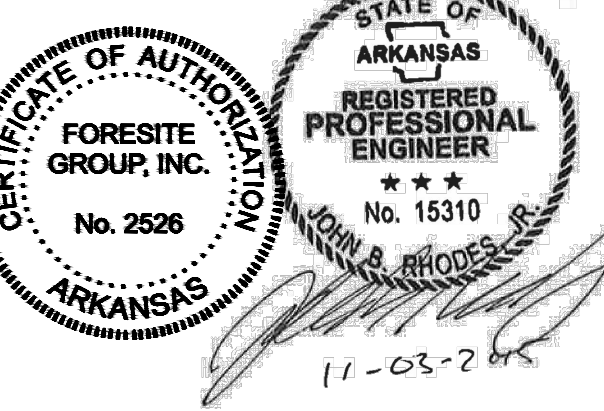
Foresite Group, Inc.  
1999 Bryan St.  
Suite 890  
Dallas, TX 75201  
o | 214.939.7123  
f | 888.765.8135  
w | www.fg-inc.net

CONSULTANT:

DEVELOPER:



SEAL:



REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE:

DEMOLITION PLAN

SHEET NUMBER:

C-0

COMMENTS:

NOT RELEASED FOR CONSTRUCTION

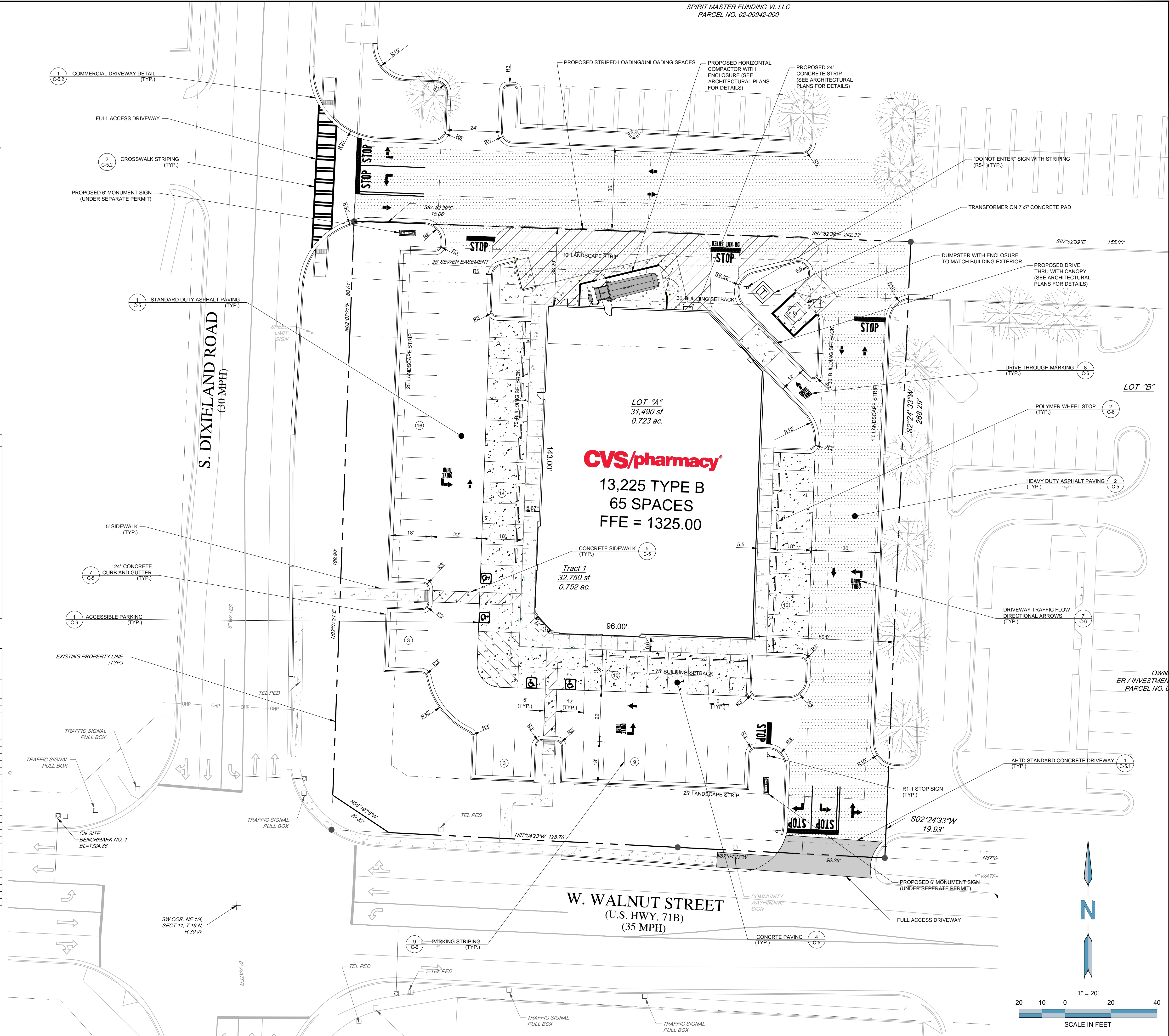


GENERAL NOTES:

- 1) ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED PARKING LOT ARE SHOWN AT THE FACE OF CURB. ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED BUILDING LOCATION ARE GIVEN AT THE OUTSIDE FACE OF THE BUILDING CORNERS. ALL CURB RADII ARE GIVEN AT THE FACE OF CURB.
  - 2) THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.
  - 3) THE CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES.
- SITE NOTES:**
- 1) TRACT IS ZONED: C-2 (HIGHWAY COMMERCIAL DISTRICT)(ROGERS OVERLAY DISTRICT) (HIGHWAY COMMERCIAL DISTRICT)
  - 2) SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, SITE LIGHTING PLAN, AND OTHER ARCHITECTURAL DETAILS.
  - 3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE.
  - 4) HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM THE PUBLIC VIEW AND DOES NOT INTERFERE WITH TRAFFIC. (SEE PHOTOMETRICS PLAN IN ARCH. PLANS).
  - 5) ALL BUFFERS, TREE SAVE AREAS, AND UNDISTURBED AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
  - 6) NO OUTSIDE STORAGE IS PROPOSED. THIS INCLUDES SUPPLIES, VEHICLE, EQUIPMENT, PRODUCTS, ETC.
  - 7) SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THIS DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR ON-SITE SIGNAGE.
  - 8) ALL PAVEMENT MARKING WITHIN CITY OF ROGERS RIGHT-OF-WAY W SHALL BE THERMOPLASTIC AND ACCORDING TO ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT SPECIFICATIONS.
  - 9) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE OWNER, HOWEVER A CONTRACTOR/DEVELOPER CAN DO PERMITTING WITH AGENT AUTHORIZATION.
  - 10) THE CONTRACTOR IS RESPONSIBLE FOR PERMITTING AND PLACEMENT OF ANY CONSTRUCTION TRAILER.
  - 11) ALL EROSION, SEDIMENT CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY GRADING.
  - 12) MAXIMUM CUT OR FILL SLOPE=2H:1V
  - 13) THE CITY OF ROGERS ACCEPTS NO RESPONSIBILITY FOR THE AMERICANS WITH DISABILITIES ACT (ADA), EXCEPT FOR NOTIFICATION REQUIREMENT. THE OWNER/DEVELOPER IS SOLELY RESPONSIBLE FOR COMPLIANCE FOR SAID ACT.
  - 14) 24 HOUR CONTACT: MR. JOHN B. RHODES, JR., PE #15310, (214) 939-7123
  - 15) THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ROGERS JURISDICTION, WATER AND SEWER JURISDICTION, AND DEPARTMENT OF TRANSPORTATION INSPECTORS REGARDING ALL CERTIFICATE OF OCCUPANCY REQUIREMENTS AND COORDINATE WITH THE ENGINEER APPROXIMATELY 8 WEEKS PRIOR TO ANTICIPATED CERTIFICATE OF OCCUPANCY DATE REGARDING ANY ITEMS REQUIRING APPROVAL OR CERTIFICATIONS BY THE ENGINEER.

LEGEND	
	STANDARD DUTY ASPHALT PAVING
	HEAVY DUTY ASPHALT PAVING
	DOT SPECIFICATION ASPHALT PAVING
	CONCRETE SIDEWALK PAVING
	STANDARD DUTY CONCRETE PAVING
	PROPERTY LINE
	PARKING COUNT
	TRAFFIC SIGN
	PAINTED TRAFFIC ARROWS
	TRAFFIC FLOW LANE DESIGNATION

SITE DATA	
ZONING:	C-2 (HIGHWAY COMMERCIAL DISTRICT)(ROGERS OVERLAY DISTRICT) (HIGHWAY COMMERCIAL DISTRICT)
FUTURE LAND USE DESIGNATION:	C-2 (HIGHWAY COMMERCIAL DISTRICT)(ROGERS OVERLAY DISTRICT) (HIGHWAY COMMERCIAL DISTRICT)
PARCEL IDENTIFICATION NUMBER:	
TOTAL SITE AREA:	1,968 AC.
PROJECT SITE AREA:	1,475 AC.
DISTURBED AREA:	1,968 AC.
PERVIOUS SURFACE AREA:	0.000 AC.
IMPERVIOUS SURFACE AREA:	1,475 AC.
OPEN SPACE AREA EXISTING:	0.350 AC.
OPEN SPACE AREA PROPOSED:	0.340 AC.
LANDSCAPE BUFFER -	
FRONT:	25' FT
SIDE:	10' FT
REAR:	10' FT
BUILDING SETBACK -	
FRONT:	75' FT
SIDE:	30' FT
REAR:	30' FT
BUILDING RETAIL FLOOR AREA:	12,881 S.F.
CANOPIES AND OVERHANGS:	308 S.F.
TOTAL GROUND FLOOR AREA:	13,225 S.F.
FLOOR AREA RATIO PROPOSED:	20.69 %
BUILDING HEIGHT:	20 FT - 0 IN
PARKING RATIO REQUIRED -	RETAIL: 1 SPACE / 250 S.F.
PARKING PROVIDED:	53 SPACES
ACCESSIBLE PARKING REQUIRED:	65 SPACES
ACCESSIBLE PARKING PROVIDED:	4 SPACES
OFF-STREET LOADING REQUIRED:	4 SPACES
OFF-STREET LOADING PROVIDED:	1 SPACE



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU  
STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756  
PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE  
CS PROJECT NUMBER: 073620

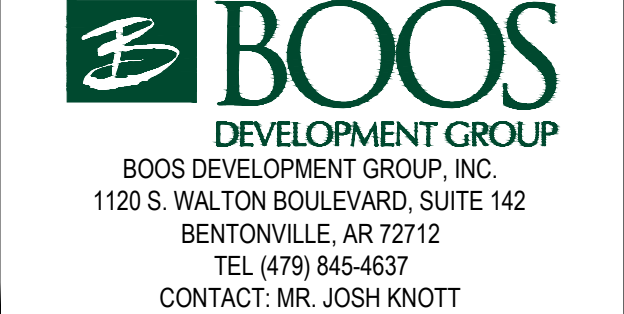
ENGINEER:



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f | 888.765.8135  
w | www.fg-inc.net

CONSULTANT:

DEVELOPER:



SEAL:



REVISIONS:

DRAWING BY: RC  
DATE: 11/13/2015  
JOB NUMBER: 163.257  
TITLE:

SITE & PAVING PLAN  
SHEET NUMBER:

C-1

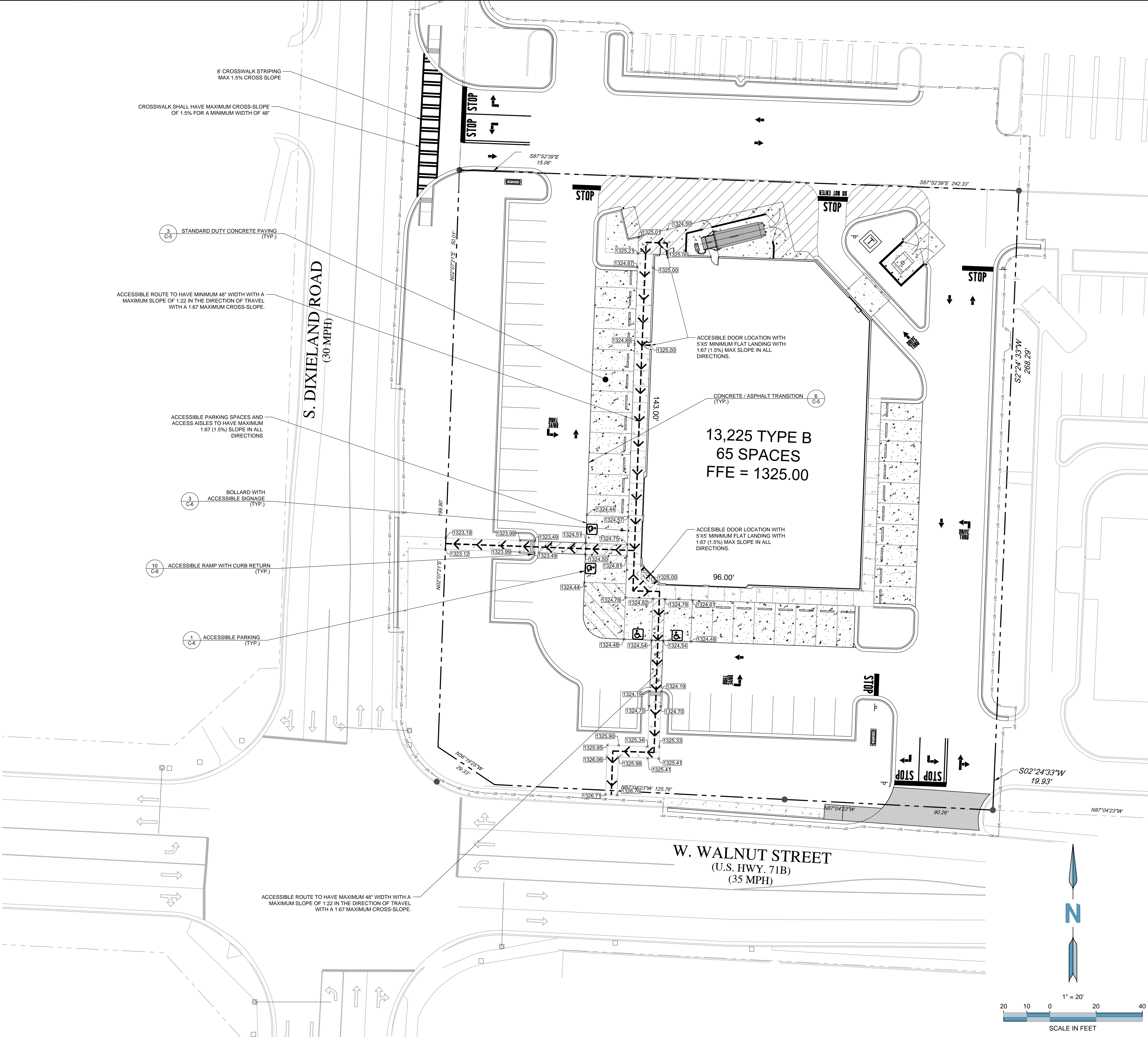
COMMENTS:  
NOT RELEASED FOR CONSTRUCTION



GENERAL NOTES:

- 1) THE CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURBS, WALLS, AND UTILITIES.
- 2) THE CONTRACTOR SHALL CONFIRM AS-BUILT SLOPES OF ACCESSIBLE PARKING SPACES, ACCESSIBLE AISLES, AND ALL ACCESSIBLE ROUTES AS SHOWN ON THE PLAN WITH A 2' SLOPE METER TO CONFIRM MAXIMUM SLOPES ARE NOT EXCEEDED. SLOPE METERS GREATER THAN 2' WILL NOT BE ACCEPTED.
- 3) THE CONTRACTOR IS REQUIRED TO PROVIDE AS-BUILT SPOT ELEVATIONS ALONG THE ACCESSIBLE ROUTES SHOWN ON THE PLAN EVERY 10' IN ORDER TO CONFIRM MAXIMUM (1.5%) CROSS-SLOPE AND MAXIMUM (4.5%) SLOPES IN THE DIRECTION OF TRAVEL. IN ADDITION, SPOT ELEVATIONS ARE REQUIRED ON ALL CORNERS AND MIDPOINTS OF ACCESSIBLE PARKING STALLS AND ACCESSIBLE AISLES TO CONFIRM MAXIMUM (1.5%) SLOPES ARE NOT EXCEEDED IN ALL DIRECTIONS. THIS INFORMATION SHALL BE PROVIDED, A MINIMUM OF 4 WEEKS BEFORE REQUEST FOR CERTIFICATION OF OCCUPANCY.
- 4) AT ADJOINING MATERIALS, THERE IS TO BE A SMOOTH AND LEVEL TRANSITION OF NO MORE THAN 1/4" VERTICAL CHANGE.
- 5) ALL SPOT ELEVATIONS ARE SHOWN AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 6) PROPOSED SIDEWALKS ALONG ADA ROUTES SHALL BE BUILT WITH A 1.5% MAXIMUM CROSS-SLOPE AWAY FROM THE BUILDING.
- 7) THE CONTRACTOR SHALL CHECK EXISTING SPOT GRADES AT AREAS OF NEW AND ADJACENT EXISTING SIDEWALK AND/OR PAVING PRIOR TO BEGINNING OF CONSTRUCTION TO VERIFY THAT COMPLIANCE WITH SLOPE LIMITS CAN BE MET.

LEGEND	
	STANDARD DUTY ASPHALT PAVING
	HEAVY DUTY ASPHALT PAVING
	DOT SPECIFICATION ASPHALT PAVING
	CONCRETE SIDEWALK PAVING
	STANDARD DUTY CONCRETE PAVING
	PROPERTY LINE
	TRAFFIC SIGN
	PAINTED TRAFFIC ARROWS
	TRAFFIC FLOW LANE DESIGNATION



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU  
STORE NUMBER: 10816  
1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756  
PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE  
CS PROJECT NUMBER: 073620

ENGINEER:  
**FORESITE**  
group  
Foresite Group, Inc.  
1999 Bryan St.  
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CONSULTANT:  
**BOOS**  
DEVELOPMENT GROUP  
BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:  
CERTIFICATE OF AUTHORIZATION  
FORESITE GROUP, INC.  
No. 2526  
STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 15310  
JOHN S. RHODES  
11-03-2025

REVISIONS:  
  
  
  
  
  
  
  
  
  
  
DRAWING BY: RC  
DATE: 11/13/2015  
JOB NUMBER: 163.257  
TITLE:

ADA SITE PLAN  
SHEET NUMBER:  
**C-1.1**  
COMMENTS:  
NOT RELEASED FOR CONSTRUCTION



- NOT RELEASED FOR CONSTRUCTION







STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION  
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CS PROJECT NUMBER: 073620

ENGINEER:



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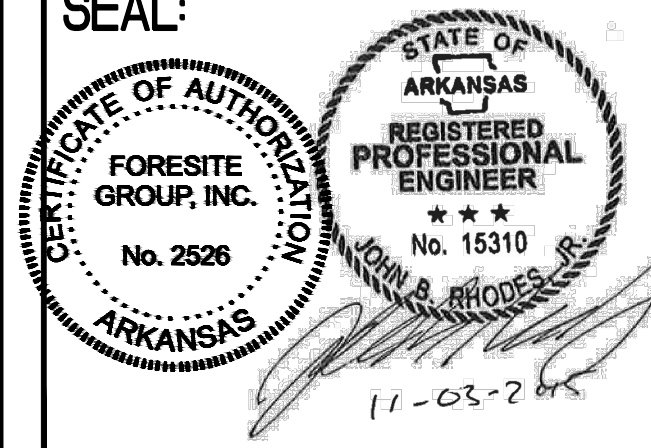
CONSULTANT:

DEVELOPER:



BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:



REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE:

STORM DRAINAGE PROFILES

SHEET NUMBER:

C-2.1

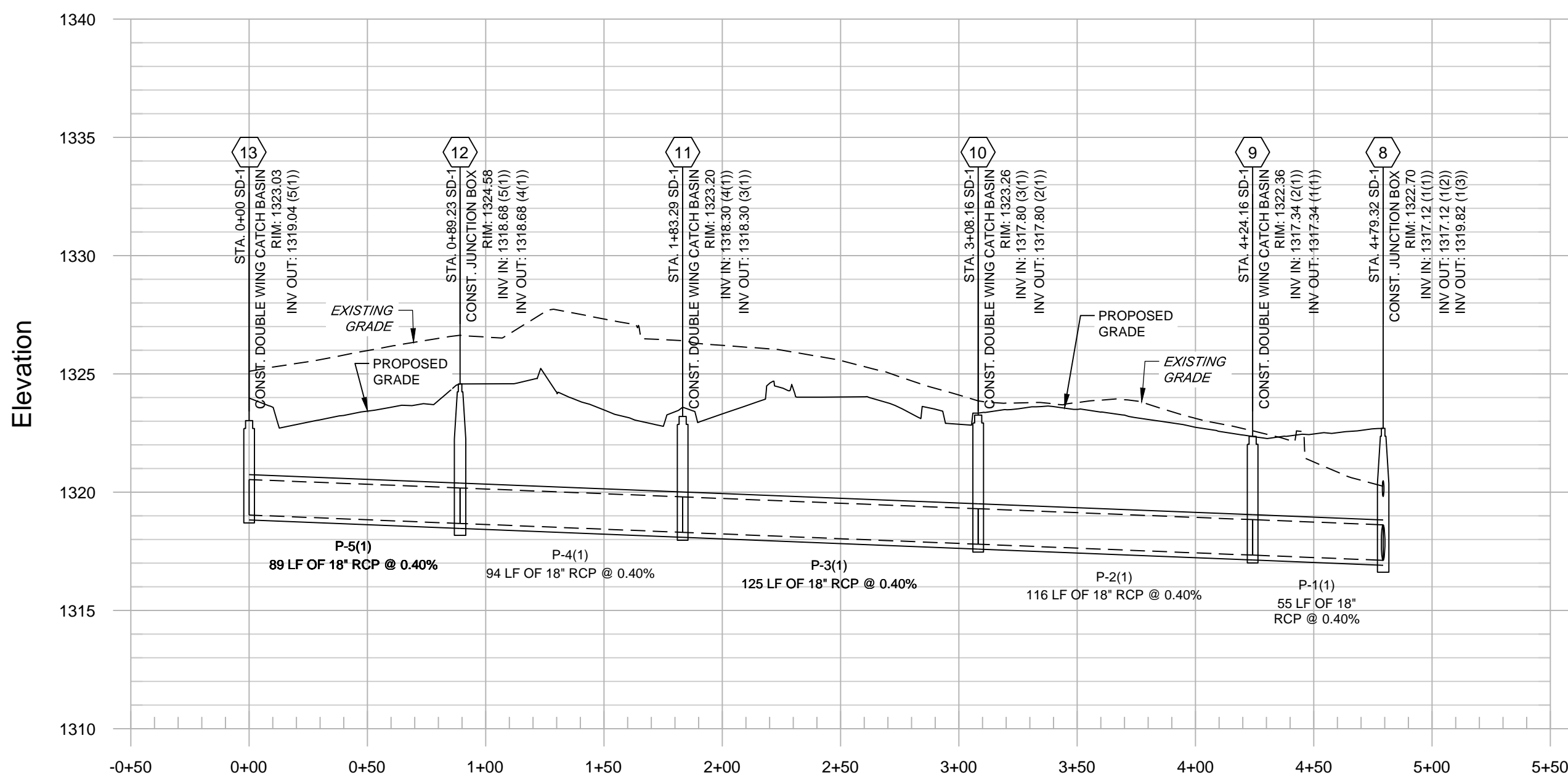
COMMENTS:

NOT RELEASED FOR CONSTRUCTION

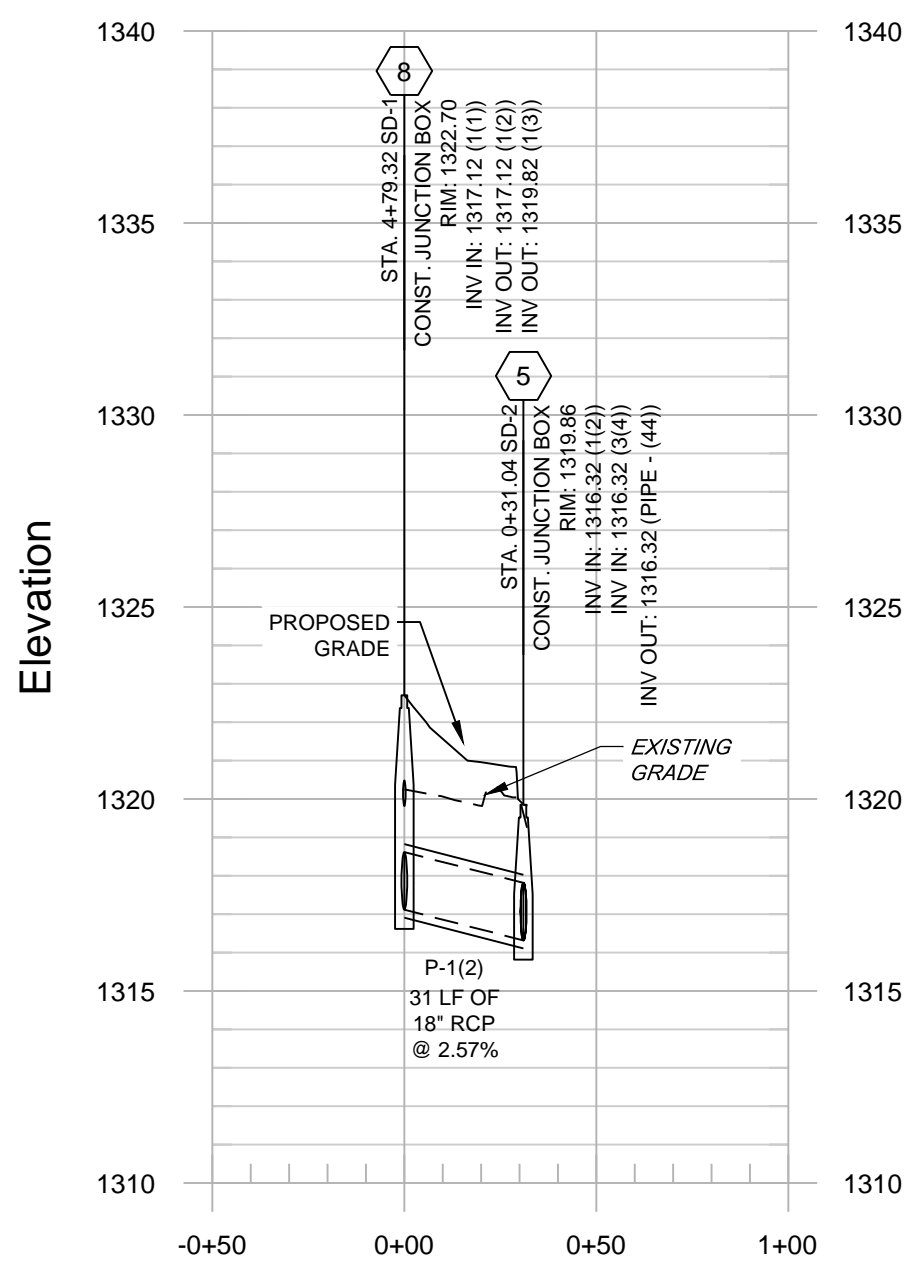
GENERAL NOTES:

- 1) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 2) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.
- 3) THE CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF UTILITIES IN RIGHT OF WAY TO AVOID CONFLICTS. CONTACT ENGINEER IMMEDIATELY IF FIELD ELEVATIONS DIFFER FROM THE DESIGN DRAWINGS.

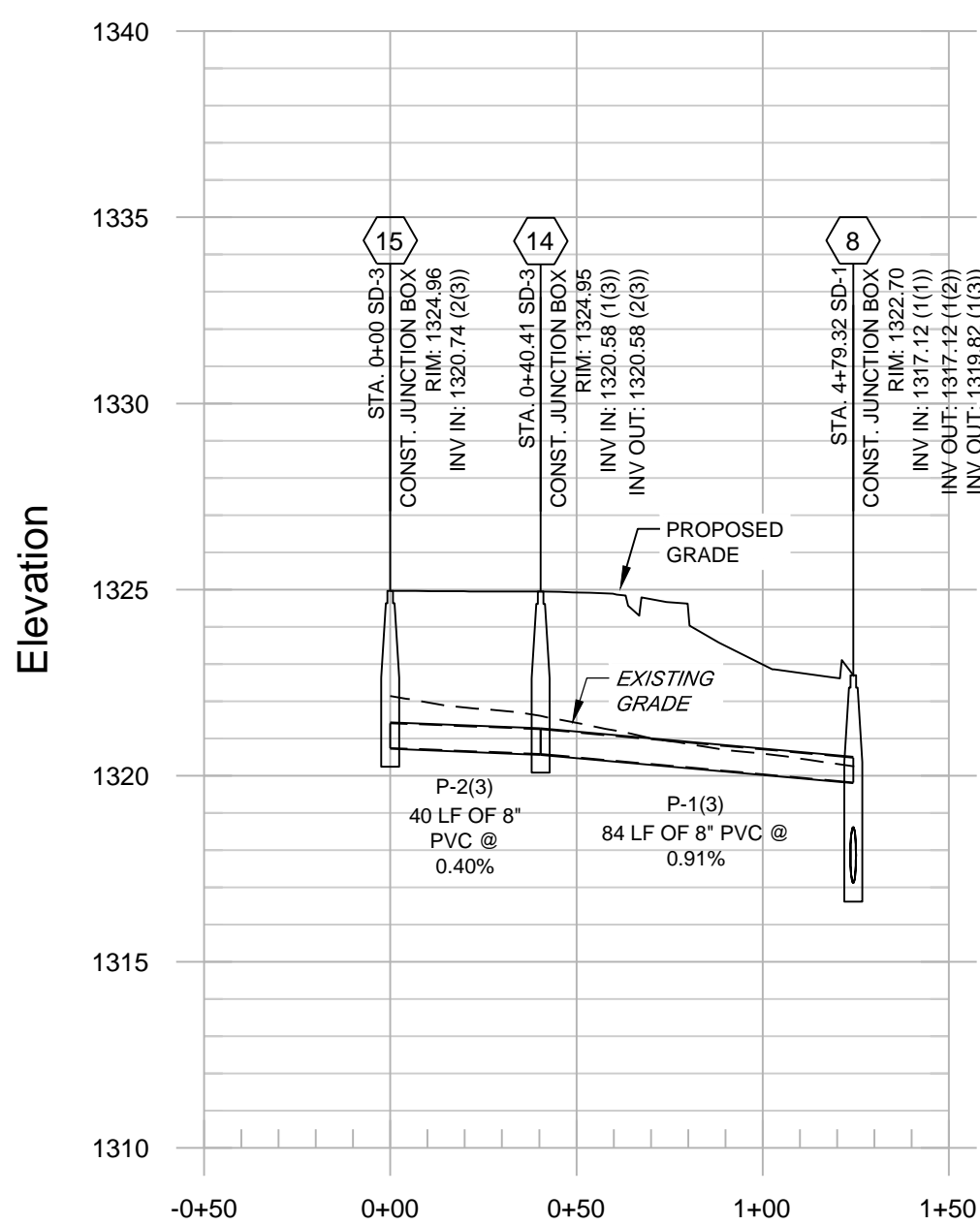
SD-1  
1" = 50'H, 1"=5'V



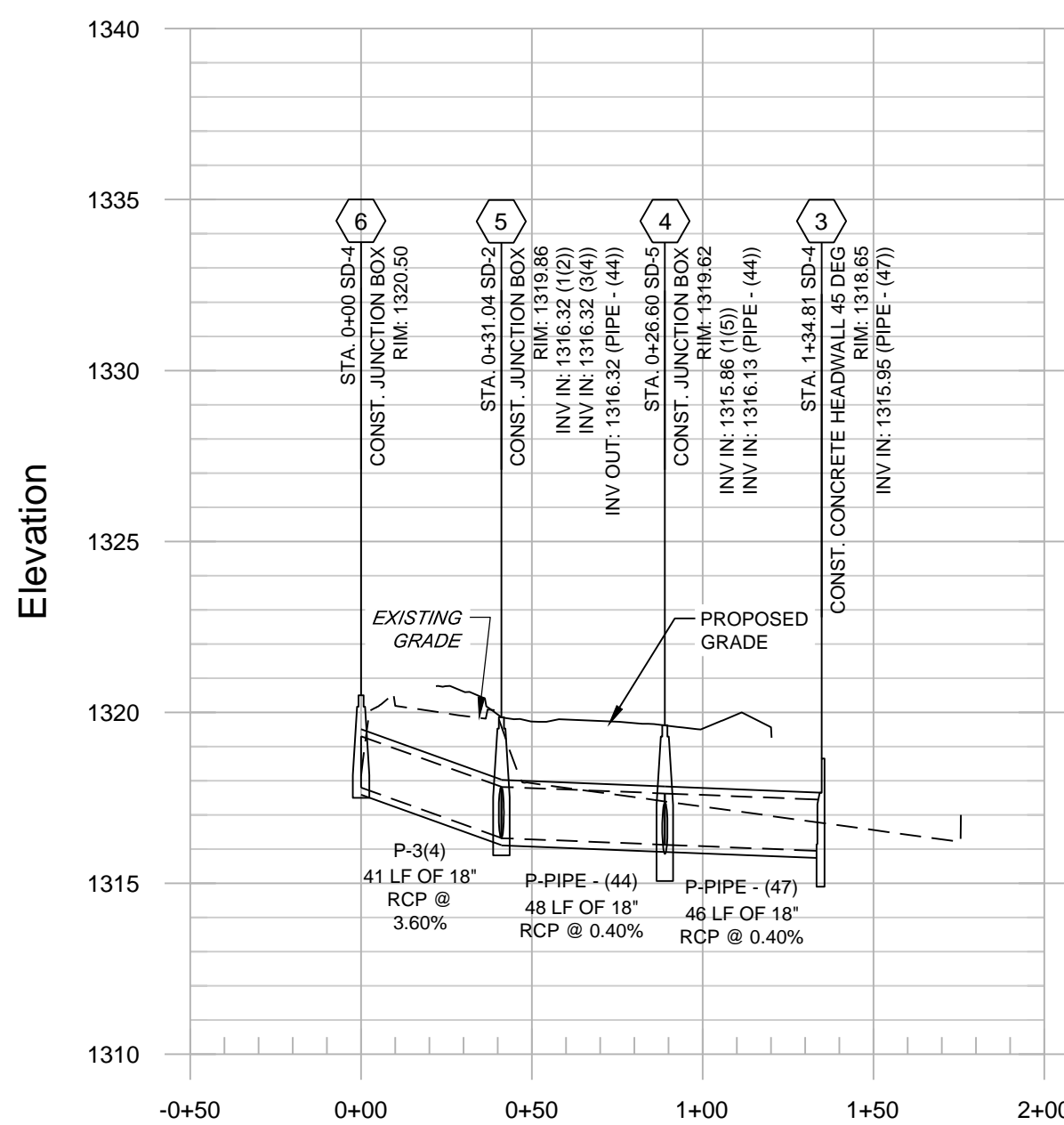
SD-2  
1" = 50'H, 1"=5'V



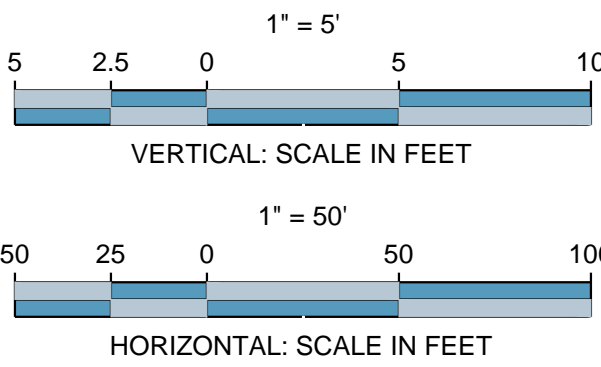
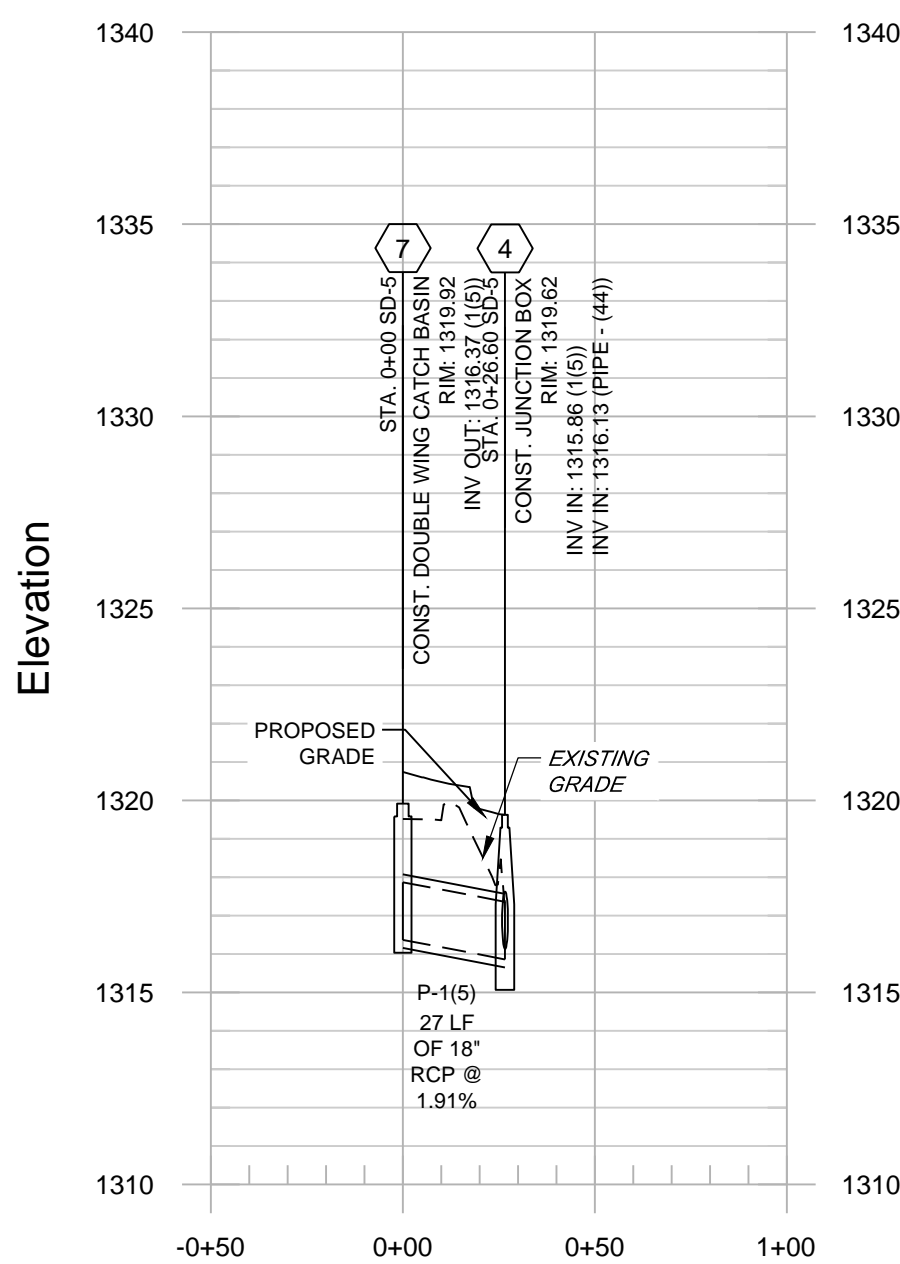
SD-3  
1" = 50'H, 1"=5'V



SD-4  
1" = 50'H, 1"=5'V



SD-5  
1" = 50'H, 1"=5'V



Know what's below  
Call before you dig

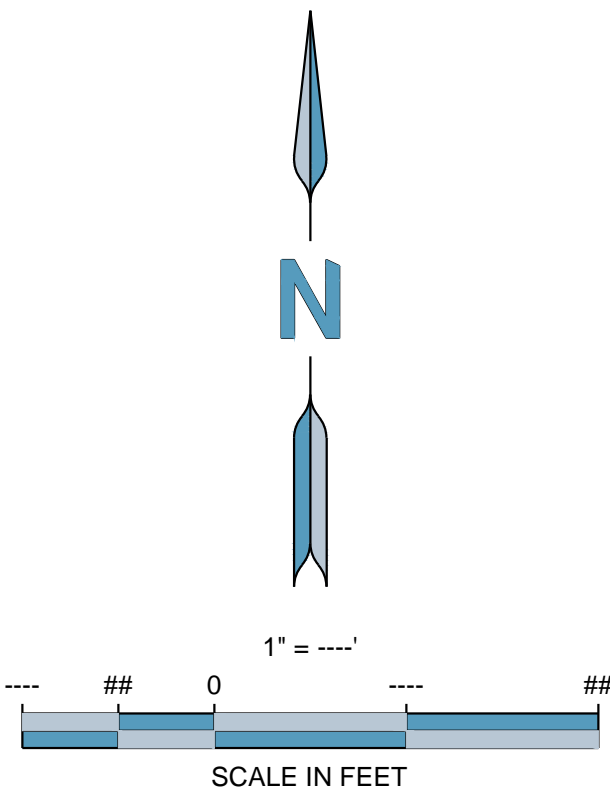
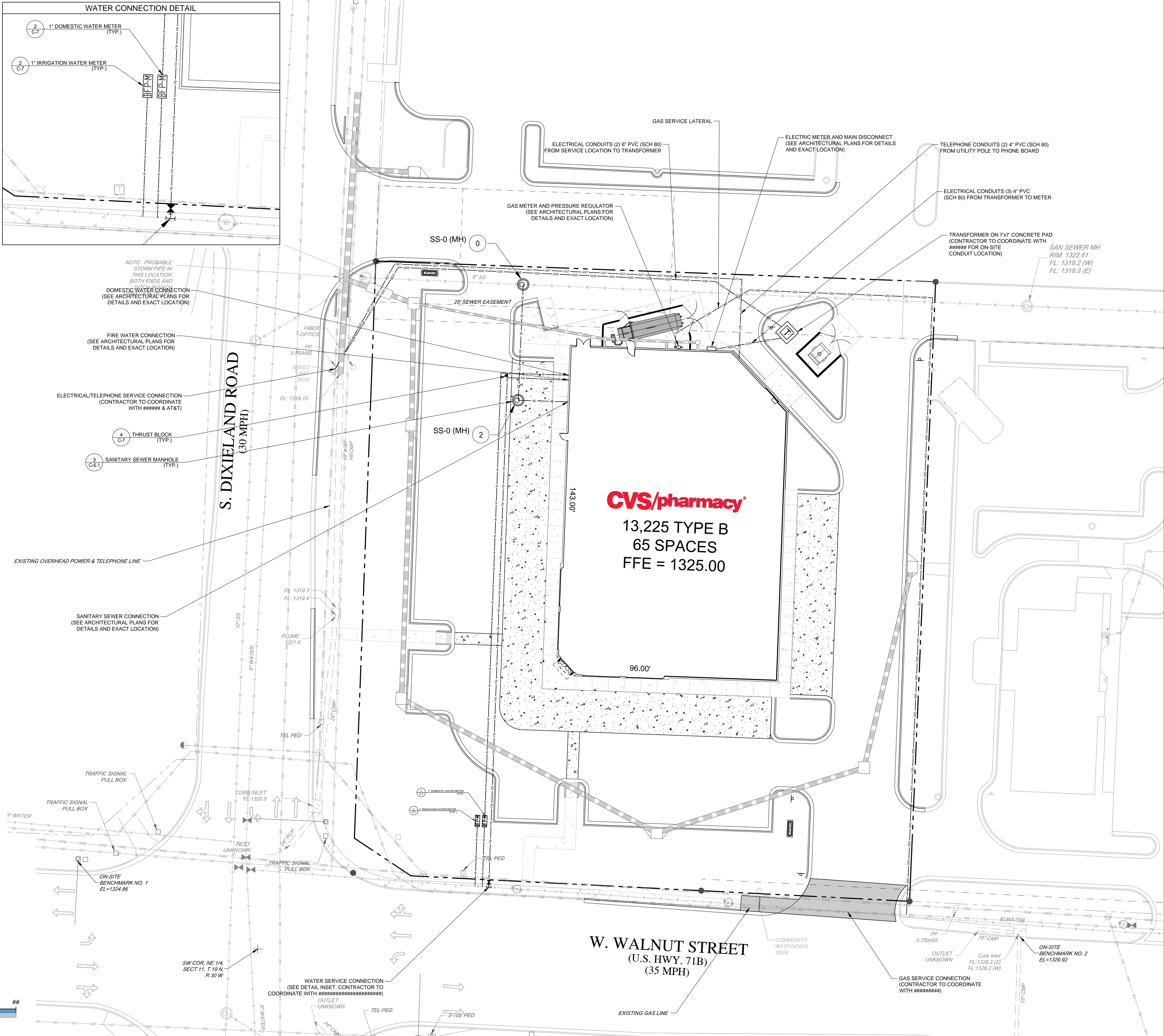


UTILITY NOTES:

- SWEPKO WILL PROVIDE UNDERGROUND ELECTRICAL SERVICE FROM THE EXISTING SERVICE POLE TO THE TRANSFORMER PAD. CONTRACTOR MUST PROVIDE TWO 5" PVC (SCH 80) CONDUITS AND A PULL STRING FROM THE EXISTING ELECTRICAL SERVICE POLE TO THE PROPOSED TRANSFORMER LOCATION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING THREE 5" PVC CONDUITS AND SECONDARY WIRING FROM THE TRANSFORMER PAD TO THE PROPOSED BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE POWER SERVICE INSTALLATION AND SHALL COORDINATE WITH THE POWER COMPANY FOR FINAL UNDERGROUND CONDUIT LOCATIONS.
- SOURCEGAS WILL PERFORM THE GAS SERVICE CONNECTION, INSTALL THE CONDUIT, AND SET THE METER FOR THE BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SERVICE FROM THE METER INTO THE PROPOSED BUILDING. CONTRACTOR MUST COORDINATE WITH THE ATLANTA GAS LIGHT COMPANY.
- THE CONTRACTOR MUST PROVIDE AND INSTALL A 3" PVC CONDUIT WITH PULL STRING, FROM THE EXISTING TELEPHONE SERVICE POLE TO THE TELEPHONE BOARD IN THE BUILDING. THE CONTRACTOR MUST ALSO PROVIDE A #6 GROUND WIRE AT THE TELEPHONE BOARD FOR THE TELEPHONE COMPANY TO INSTALL A PHONE LINE.
- ROGERS WATER UTILITIES WILL FURNISH THE DOMESTIC WATER METER AND ALL EQUIPMENT NEEDED TO TAP THE EXISTING WATER LINE. THE CONTRACTOR MUST PROVIDE AND INSTALL THE METER BOX, DOUBLE CHECK BACKFLOW PREVENTER AND ENCLOSURE, AND THE WATER SERVICE LINE FROM THE WATER METER TO THE BUILDING.
- ROGERS WATER UTILITIES WILL FURNISH THE IRRIGATION METER AND ALL EQUIPMENT NEEDED TO TAP THE EXISTING WATER LINE. THE CONTRACTOR MUST PROVIDE AND INSTALL THE METER BOX, DOUBLE CHECK BACKFLOW PREVENTER AND ENCLOSURE, AND THE IRRIGATION LINES TO THE AREAS SPECIFIED ON THIS SHEET AND ON SHEET I-1.
- THE CONTRACTOR SHALL COORDINATE AS REQUIRED WITH CITY OF ROGERS INSPECTIONS DURING CONSTRUCTION FOR REQUIRED INSPECTIONS.
- THIS SITE INDICATES POTABLE WATER SERVICE AND SANITARY SEWER LATERALS. THIS WORK TO BE INSTALLED BY A LICENSED PLUMBER IF STATE LAW REQUIRES. ALL WORK MUST BE INSPECTED CITY OF ROGERS CODES AND INSPECTION DEPARTMENT.
- ALL ON-SITE PVC PIPE SHALL HAVE CLASS B BEDDING.
- ALL CONDUIT, PIPE, AND CHASE PIPE SHALL BE WRAPPED WITH THE APPROPRIATE LOCATION WIRE AND TAPE.
- NO PRESSURE REDUCING VALVES ARE TO BE INSTALLED ON FIRE LINES. ALL FIRE LINES ARE TO BE INSPECTED BY CITY OF ROGERS FIRE SERVICE PRIOR TO COVERING.
- NOTIFY WATER AND SEWER INSPECTOR PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS INCLUDING ALL RIM ELEVATIONS, INVERT ELEVATIONS, PIPE SIZES, AND PIPE MATERIAL FOR ALL PUBLIC MAINS TO THE ENGINEER AS SOON AS INSTALLATION IS COMPLETE.
- THE OWNER SHALL BE RESPONSIBLE FOR ANY REPAIR OR REPLACEMENT OF ANY IMPROVEMENTS WITHIN THE SANITARY SEWER, WATER, DRAINAGE EASEMENT(S) DUE TO MAINTENANCE OF SEWER, WATER, STORM DRAIN OF CITY OF ROGERS.
- THE CONTRACTOR SHALL INSTALL THE DOWNSTREAM SANITARY SEWER CONNECTION IN THE RIGHT OF WAY PRIOR TO THE INSTALLATION OF THE ON-SITE SERVICE LATERALS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT HOLING THE LINES. THE CONTRACTOR SHALL HAVE THE LINES SURVEYED, INCLUDING HORIZONTAL AND VERTICAL LOCATION, AND THE SURVEYED POINTS SENT TO THE PROJECT ENGINEER TO DETERMINE IF ANY UTILITY CONFLICTS WILL AFFECT THE CURRENT SANITARY SEWER DESIGN.
- PVC WATER LINES LESS THAN 3" SHALL BE ASTM D 2241, SDR 21 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 2672, PVC WATER LINES 3" AND LARGER SHALL BE AWWA C300, RATED DR 18 (CLASS 150) WITH INTEGRALLY MOLDED BELL ENDS, ASTM D3139. DIP WATER LINES SHALL BE AWWA C151, THICKNESS CLASS 50.
- PVC SANITARY SEWER LINES SHALL BE ASTM D 3034, RATED SDR 35 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 3034, TABLE 2, WITH FACTORY SUPPLIED ELASTOMERIC GASKETS AND LUBRICANT. DIP SANITARY SEWER LINES SHALL BE ASTM A746, CLASS 50 WITH AWWA C111, RUBBER GASKET JOINT DEVICES.
- DEMOLISHED UTILITIES NOT DEPICTED ON THIS SHEET. REFER TO THE DEMOLITION PLAN.

LEGEND	
	EXISTING FENCE LINE
	PROPERTY LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING FIBER OPTIC LINE
	EXISTING OVERHEAD POWER & TELEPHONE LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING GAS LINE
	EXISTING SANITARY SEWER LINE
	EXISTING WATER LINE
	EXISTING STORM LINE
	PROPOSED UNDERGROUND POWER LINE
	PROPOSED UNDERGROUND TELEPHONE LINE
	PROPOSED GAS LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED WATER LINE
	PROPOSED FIRE WATER LINE
	PROPOSED STORM LINE

CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU  
STORE NUMBER: 10816

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PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE  
CS PROJECT NUMBER: 073620

ENGINEER:

FORESITE  
group

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CONSULTANT:

DEVELOPER:



BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
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TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:



REVISIONS:

DRAWING BY: RC  
DATE: 11/13/2015  
JOB NUMBER: 163.257  
TITLE:

UTILITIES PLAN

SHEET NUMBER:

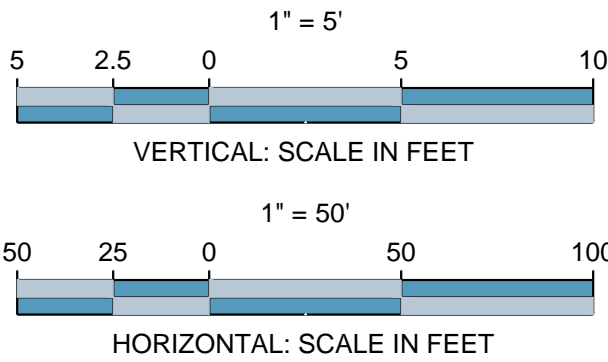
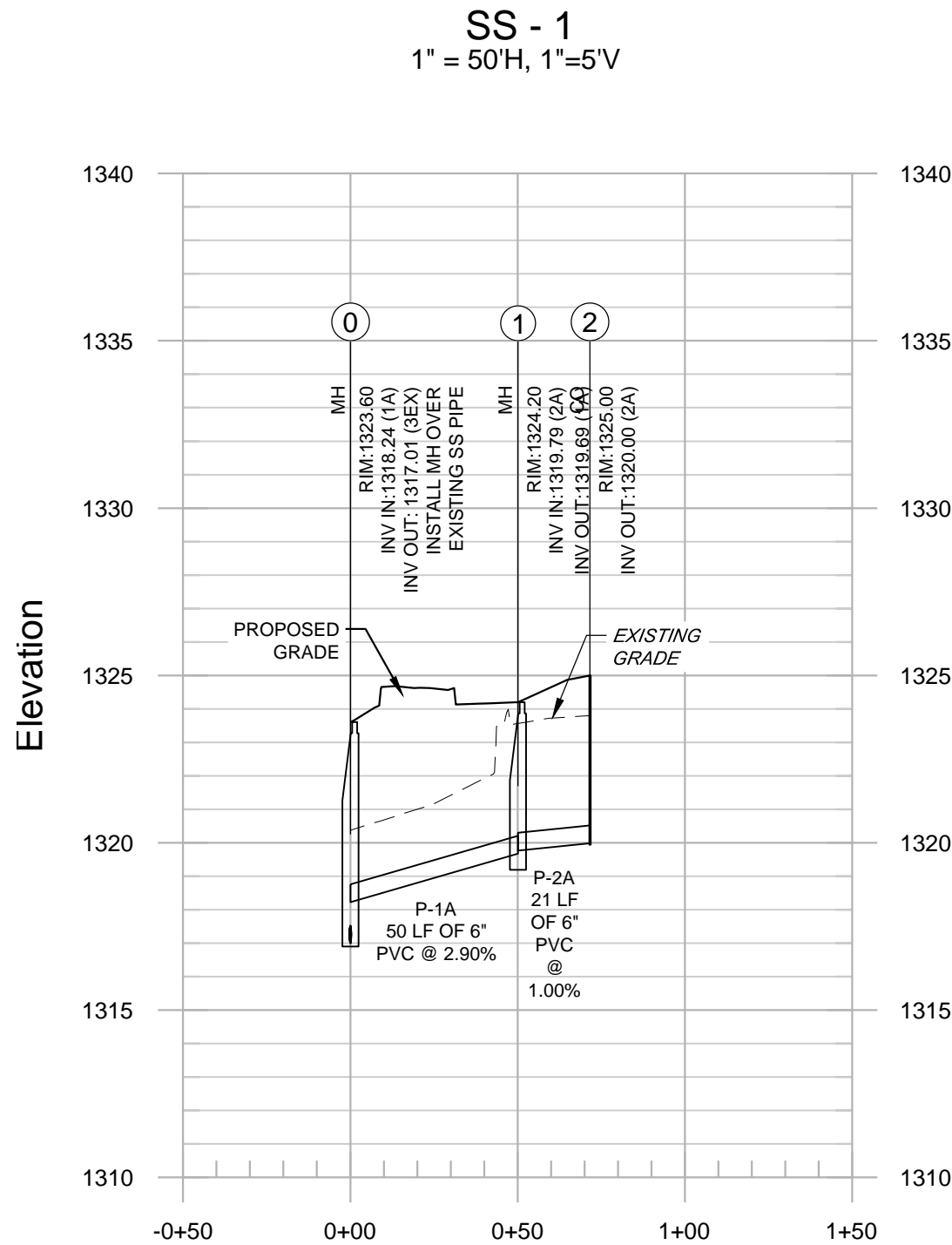
C-3

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION



GENERAL NOTES:

- 1) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 2) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.
- 3) CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF UTILITIES IN RIGHT OF WAY TO AVOID CONFLICTS. CONTACT ENGINEER IMMEDIATELY IF FIELD ELEVATIONS DIFFER FROM THE DESIGN DRAWINGS.



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

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ENGINEER:



Foresite Group, Inc.  
1999 Bryan St.  
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Dallas, TX 75201  
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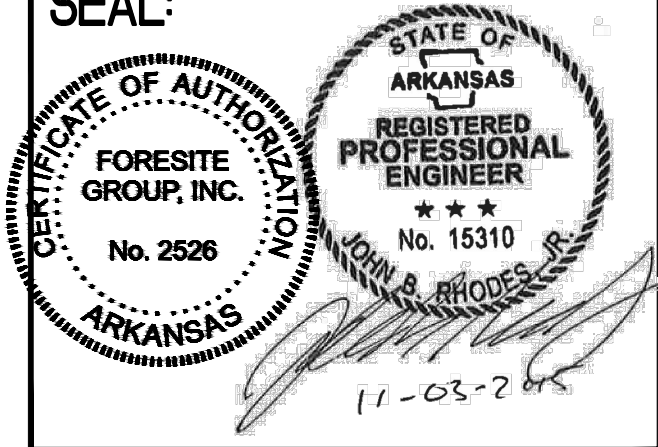
CONSULTANT:

DEVELOPER:



BOOS DEVELOPMENT GROUP  
BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:



REVISIONS:


DRAWING BY:	RC
DATE:	11/13/2015
JOB NUMBER:	163.257
TITLE:	

SANITARY SEWER PROFILES

SHEET NUMBER:

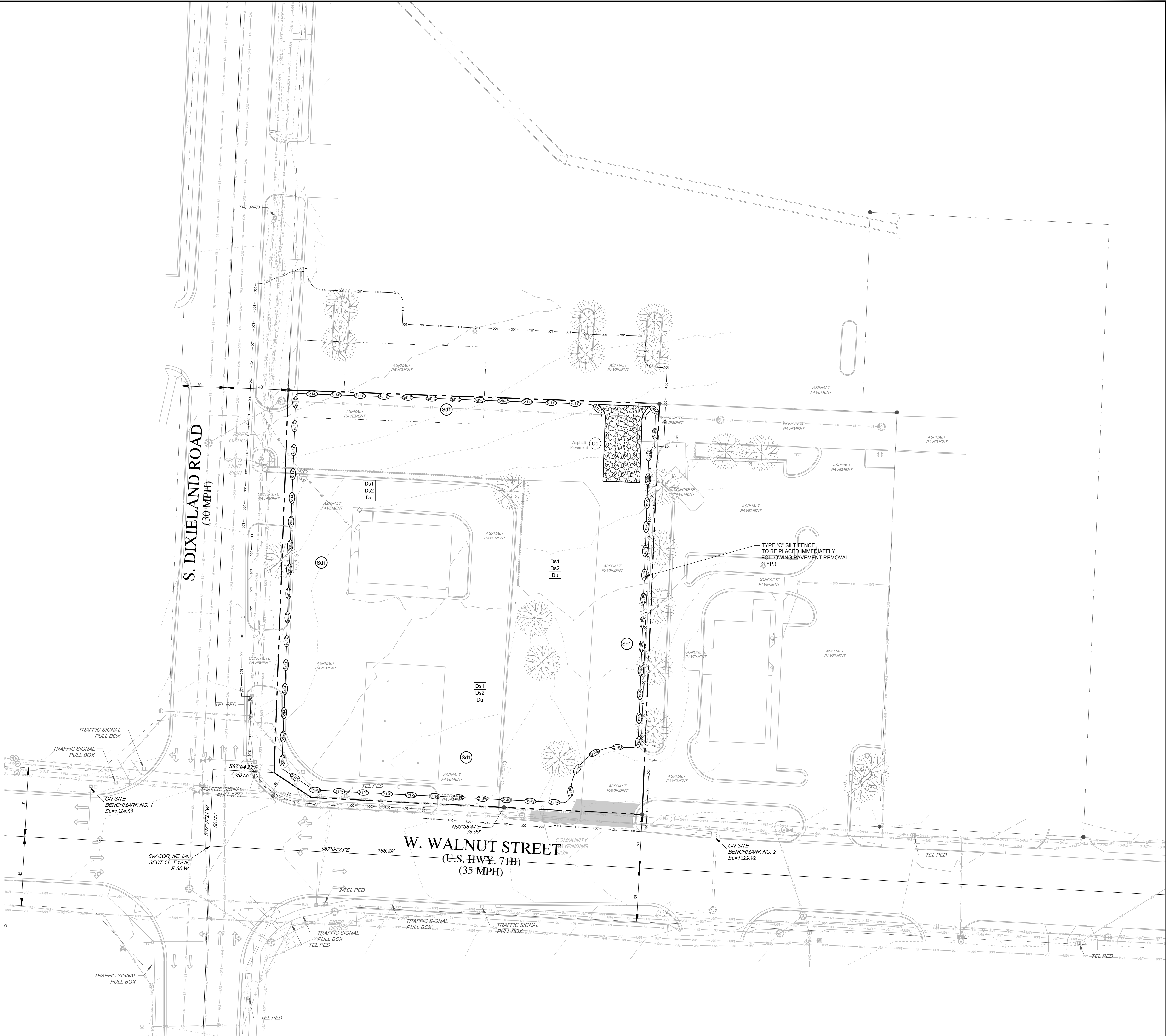
C-3.1

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION



EROSION AND SEDIMENT CONTROL LEGEND			
CODE	PRACTICE	DETAIL	MAP SYMBOL
Co	CONSTRUCTION ENTRANCE		Co
Sd1	SEDIMENT BARRIER		TYPE 'C' SILT FENCE
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2
Du	DUST CONTROL ON DISTURBED AREAS		Du
	LIMITS OF DISTURBANCE	N/A	---
	SOIL DELINEATION LINE	N/A	---

SOIL TYPE	
CnB	CAPTINA SILT LOAM, 1 TO 3 PERCENT SLOPES



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION

DEAL TYPE: FEE FOR SERVICE

CS PROJECT NUMBER: 073620

ENGINEER:



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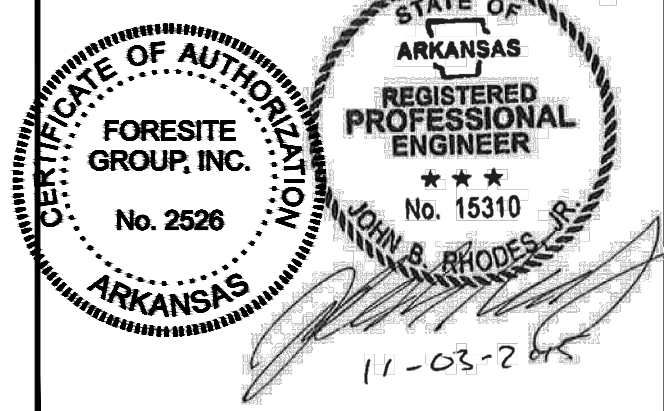
CONSULTANT:

DEVELOPER:



BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:



REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE:

INITIAL EROSION & SEDIMENT  
CONTROL PLAN

SHEET NUMBER:

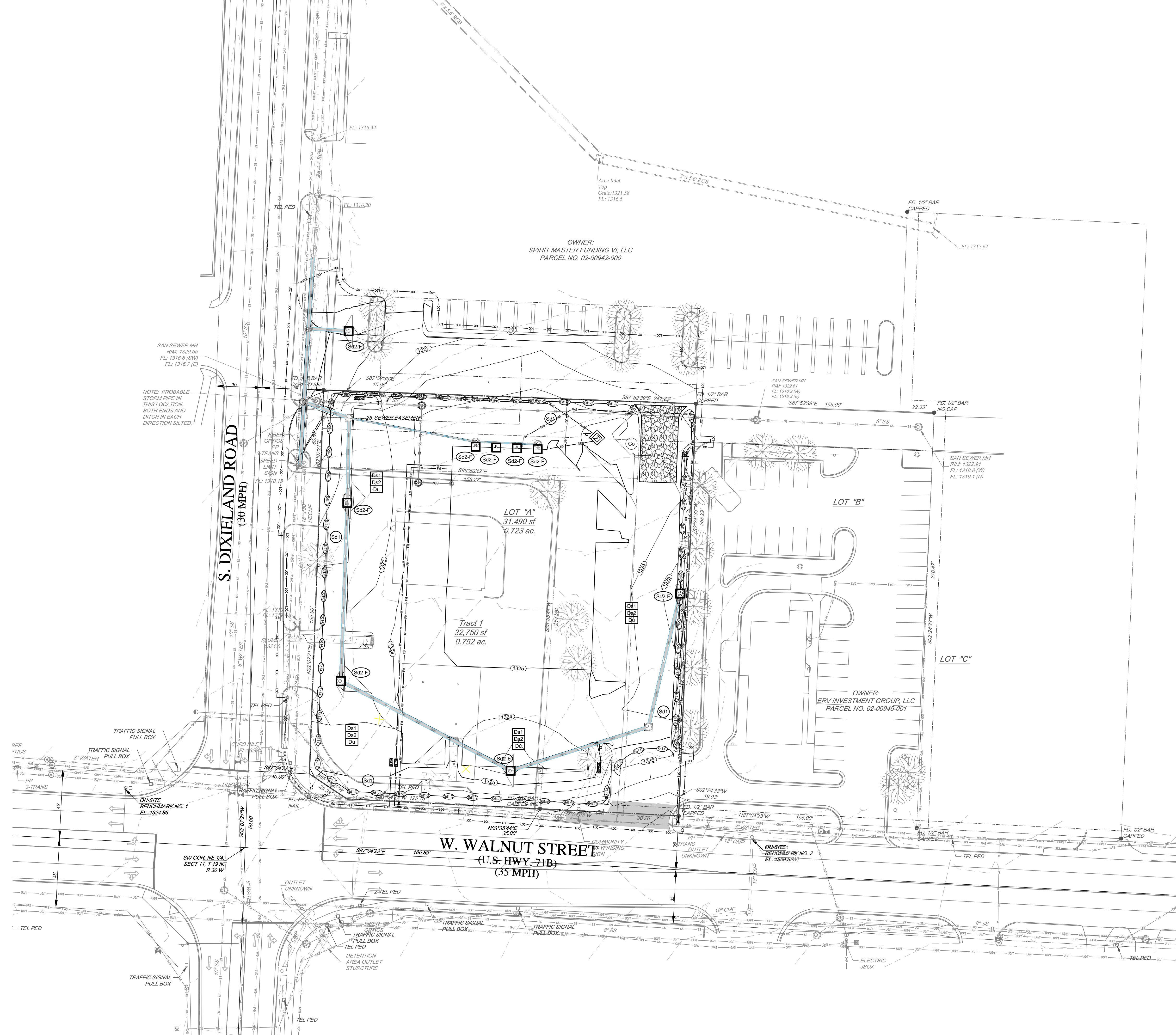
C-4


COMMENTS:  
NOT RELEASED FOR CONSTRUCTION




EROSION AND SEDIMENT CONTROL LEGEND			
CODE	PRACTICE	DETAIL	MAP SYMBOL
Co	CONSTRUCTION ENTRANCE		Co
Cw	CONCRETE WASHOUT AREA		
Sd1	SEDIMENT BARRIER		TYPE 'C' SILT FENCE
Sd2-F	INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME		
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2
Du	DUST CONTROL ON DISTURBED AREAS		Du
	LIMITS OF DISTURBANCE	N/A	---
	SOIL DELINEATION LINE	N/A	---

SOIL TYPE	
CnB	CAPTINA SILT LOAM, 1 TO 3 PERCENT SLOPES

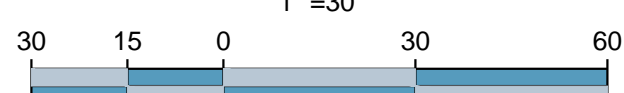




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N



1"=30'  
SCALE IN FEET



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE

CS PROJECT NUMBER: 073620

ENGINEER:



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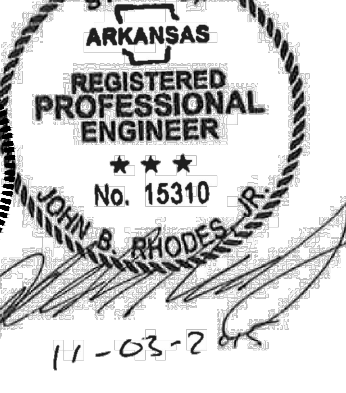

CONSULTANT:

DEVELOPER:



BOOS  
DEVELOPMENT GROUP  
BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:



STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 2526  
No. 15310  
JOSH B. RHODES  
11-03-2025

REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE:

INTERMEDIATE EROSION &  
SEDIMENT CONTROL PLAN

SHEET NUMBER:

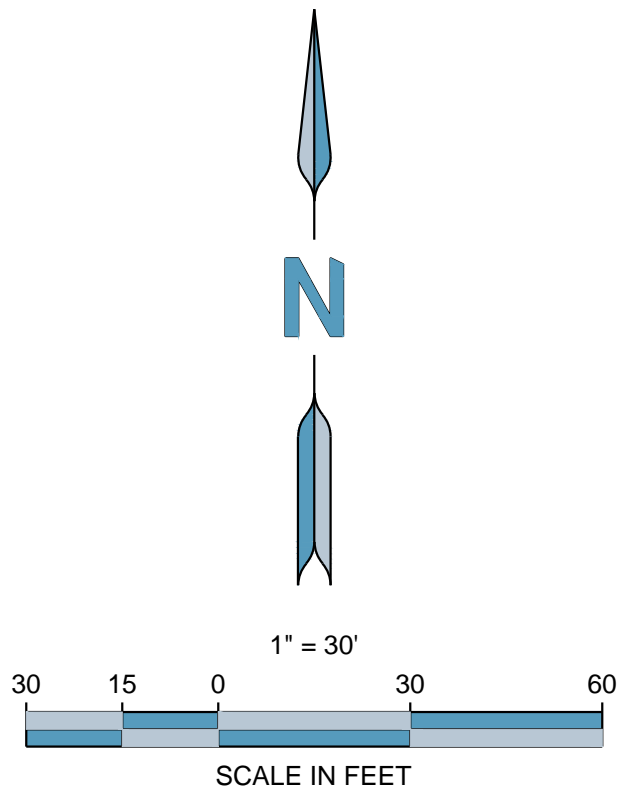
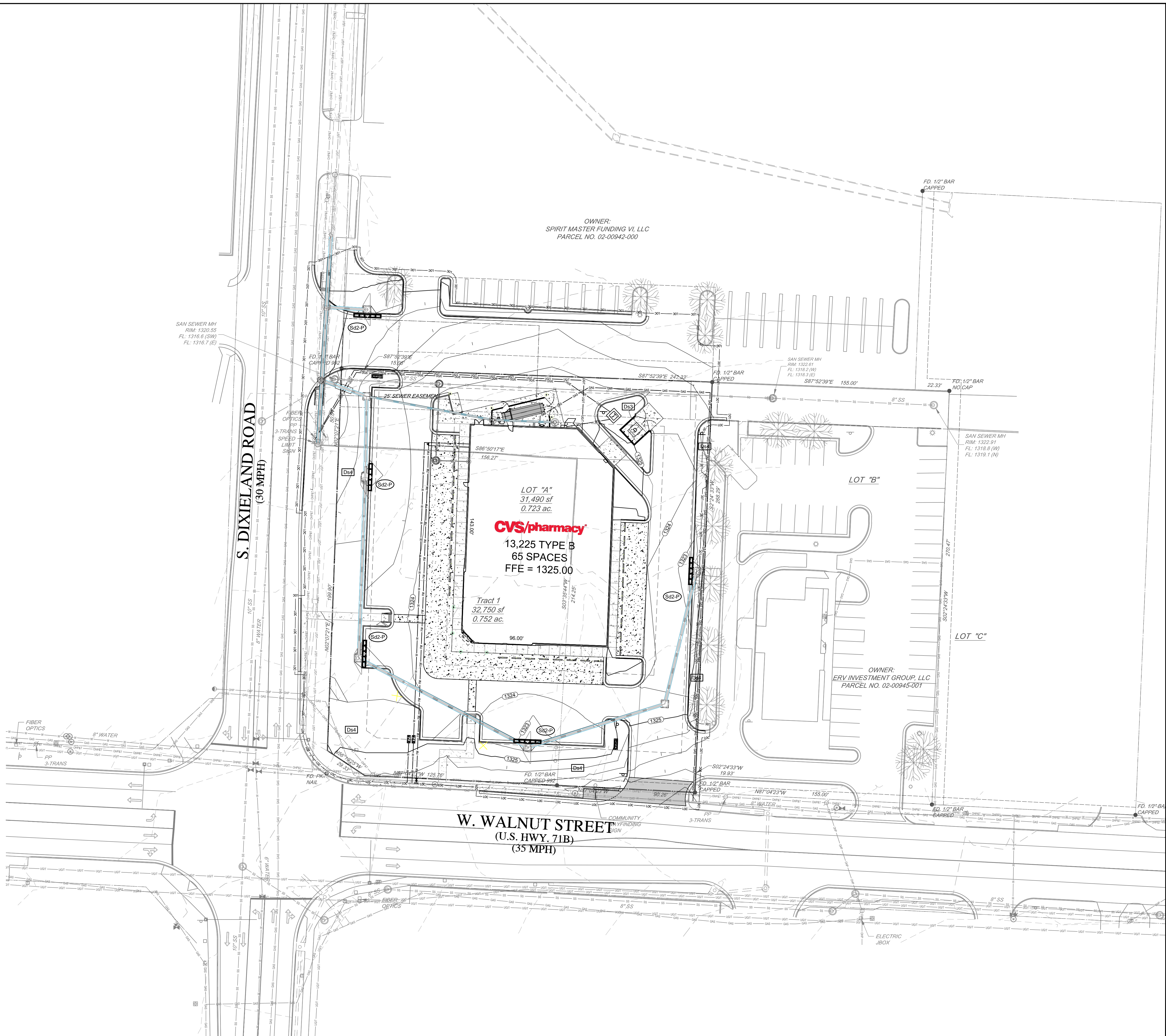
C-4.1

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION



EROSION AND SEDIMENT CONTROL LEGEND			
CODE	PRACTICE	DETAIL	MAP SYMBOL
Sd2-P	INLET SEDIMENT TRAP CURB INLET PROTECTION		
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		
Ds4	SODDING		
	LIMITS OF DISTURBANCE	N/A	

SOIL TYPE	
CnB	CAPTINA SILT LOAM, 1 TO 3 PERCENT SLOPES



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE

CS PROJECT NUMBER: 073620

ENGINEER:



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BOOS DEVELOPMENT GROUP, INC.  
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TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:

REVISIONS:	

DRAWING BY:	RC
DATE:	11/13/2015
JOB NUMBER:	163.257
TITLE:	

FINAL EROSION & SEDIMENT  
CONTROL PLAN

SHEET NUMBER:  
**C-4.2**

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION



**EROSION CONTROL NOTES:**

- 1) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. 24 HR CONTACT: MR. JOHN B. RHODES, JR., PE #15310 (214) 939-7123. CONTRACTOR SHALL INFORM ENGINEER WHEN CONSTRUCTION BEGINS.
- 2) THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.
- 3) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 4) EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 5) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.
- 6) SEDIMENT STORAGE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
- 7) THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.
- 8) MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
- 9) A 25-FOOT UNDISTURBED BUFFER IS TO BE MAINTAINED ADJACENT TO ALL STREAMS.
- 10) DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION.
- 11) ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
- 12) CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING.
- 13) THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
- 14) EROSION CONTROL DEVICES THAT ARE INSTALLED AS DIRECTED BY THE LAND DEVELOPMENT INSPECTOR BUT NOT SHOWN ON THE APPROVED PLAN AND WHICH ALSO SUBSEQUENTLY FAIL, ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 15) ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPROPRIATE SEASON. ADDITIONAL PLANTINGS WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.
- 16) TOPSOIL SHALL BE STOCKPILED AND USED TO DRESS FINAL GRADES.
- 17) NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP NUMBER 05007C0260K DATED 06/05/2012.
- 18) THE CONTRACTOR WILL CLEAN OUT ACCUMULATED SILT IN THE STORM DRAINAGE PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.
- 19) ALL LOTS WITH WET LAND OR WITHIN A DAM ZONE SHALL BE DENOTED WITH AN ASTERISK.
- 20) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF ROGERS OR ADEQ OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS AND/OR WHICH MAY IMPACT ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULARITY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH MAY HAVE THIS EFFECT.
- 21) ALL CONSTRUCTION SHALL COMPLY WITH THE SPECIFICATIONS AND PROCEDURES DETAILED IN THE CURRENT DEVELOPMENT REGULATIONS OF CITY OF ROGERS AND THE EPA BEST MANAGEMENT PRATICES.
- 22) TWO ROWS OF TYPE C SILT FENCE SHALL BE INSTALLED ADJACENT TO STATE WATERS AND WILL PROTECT STATE WATERS FROM ANY LAND DISTURBING ACTIVITIES.
- 23) ALL SLOPES AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF TOPSOIL APPLIED. THE AREA SHALL THEN BE SEED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL A HEALTHY STAND OF PERMANENT VEGETATION HAS BEEN ESTABLISHED FOR ALL DISTURBED AREAS. SEEDS FOR GRASSED AREAS USE THE MIXTURES PER AHTD SPECIFICATIONS.
- 24) ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION IS COMPLETE.
- 25) SILT BARRIERS SHALL BE PLACED AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR COUNTY INSPECTORS.
- 26) CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES UNTIL CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- 27) ALL DISTURBED AREAS SHALL BE GRASSED AS SOON AS POSSIBLE AS PER THE SEEDING SCHEDULES AND RATES.
- 28) ALL OPEN DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP PLACED AS REQUIRED TO PREVENT EROSION.
- 29) MAXIMUM SLOPES ON CUT OR FILL SECTIONS SHALL NOT EXCEED 2 TO 1.
- 30) ALL FILL AREAS AND DITCH WORK ON THIS SITE SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR.
- 31) ALL DRAINAGE STRUCTURES SHALL HAVE RING AND COVER ACCESS.
- 32) LENGTH OF STORM WATER OUTFALL STRUCTURE RIP-RAP SHALL BE AT LEAST 6 TIMES THE DIAMETER OF THE STORM DRAIN PIPE.
- 33) WHERE APPLICABLE, EACH INDIVIDUAL LOT BUILDER SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL MEASURES ON THEIR OWN LOT.
- 34) SECONDARY PERMITTEES SHALL BE RESPONSIBLE FOR RETURNING AREAS DISTURBED DURING THEIR ACTIVITIES TO THE CONDITION PRIOR TO THEIR DISTURBANCE (TO INCLUDE SEEDING, STRAW, OR OTHER PRE-EXISTING BMP CONTROLS APPLIED).
- 35) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS.
- 36) INSPECTIONS ARE TO BE MADE AFTER EACH RAINFALL EVENT AND SILT ACCUMULATIONS SHALL BE REMOVED FROM ANY SEDIMENT BASINS AND PLACED AT A STABLE LOCATION WHERE IT IS TO BE SEEDD AND MULCHED.
- 37) SEE EROSION CONTROL DETAIL SHEET FOR EROSION CONTROL DETAILS & SEEDING RATES AND SCHEDULES.
- 38) RED LINE COMMENTS ON WORKING SETS OF PLANS SHOULD BE MAINTAINED ON SITE FOR ANY CHANGES MADE TO EROSION CONTROL PLAN. COMMENTS SHOULD INCLUDE DATE AND JUSTIFICATION FOR CHANGES.
- 39) PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE. ANY MUD, DIRT, OR ROCK TRACKED FROM THE SITE WILL BE CLEANED AS NECESSARY. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN.
- 40) PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF DISTURBANCE SHALL BE CLEARLY AND ACCURATELY MARKED WITH STAKES, RIBBON OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- 41) IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

**GENERAL NOTES:**

THIS PLAN INCLUDES, AS A MINIMUM, BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE EPA BEST MANAGEMENT PRACTICES, AS WELL AS THE FOLLOWING:

- 1) STRIPPING OF VEGETATION, CUT AND FILL OPERATIONS, AND OTHER DEVELOPMENT ACTIVITIES WILL BE CONDUCTED IN A MANNER SO AS TO MINIMIZE EROSION.
- 2) DEVELOPMENT PLANS CONFORM TO TOPOGRAPHY AND SOIL TYPE, SO AS TO CREATE THE LOWEST PRACTICABLE EROSION POTENTIAL.
- 3) THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROISVE ELEMENTS WILL BE KEPT TO A PRACTICAL MINIMUM. WHENEVER FEASIBLE, NATURAL VEGETATION WILL BE RETAINED, PROTECTED, AND SUPPLEMENTED.
- 4) DISTURBED SOIL WILL BE STABILIZED AS QUICKLY AS PRACTICABLE.
- 5) TEMPORARY VEGETATION OR MULCHING WILL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT AT A MINIMUM OF EVERY 7 DAYS IF THE SOIL HAS BEEN LEFT UNDISTURBED.
- 6) PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES WILL BE INSTALLED AS SOON AS PRACTICABLE.
- 7) TO THE EXTENT NECESSARY, SEDIMENT IN RUN-OFF WATER WILL BE TRAPPED BY THE USE OF DEBRIS BASINS, SILT FENCE, SILT TRAPS, OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
- 8) ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.
- 9) CUTS AND FILLS WILL NOT ENDANGER ADJOINING PROPERTY.
- 10) FILLS WILL NOT ENCROACH UPON NATURAL WATER COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.
- 11) GRADING EQUIPMENT WILL CROSS FLOWING STREAMS BY THE MEANS OF BRIDGES OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE, PROVIDED IN ANY CASE THAT SUCH CROSSINGS ARE KEPT TO A MINIMUM.
- 12) PROVISIONS ARE PROVIDED FOR TREATMENT OR CONTROL OF ANY SOURCE OF SEDIMENTS AND ADEQUATE SEDIMENTATION CONTROL FACILITIES TO RETAIN SEDIMENTS ON SITE OR PRECLUDE SEDIMENTATION OF ADJACENT WATERS BEYOND THE LEVELS AR 150000, OR SPECIFIED IN THE GENERAL NPDES PERMIT NUMBER.
- 13) NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- 14) OFF SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL.
- 15) ALL LOTS AND DEVELOPMENT AREAS SHALL MAINTAIN COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
- 16) A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- 17) THERE SHALL BE NO ON-SITE STORAGE OF PETROLEUM. MOBILE PETROLEUM TRUCKS SHALL BE USED TO FUEL CONSTRUCTION EQUIPMENT ON-SITE.
- 18) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A "QUALIFIED PROFESSIONAL" INSPECT AND REPORT ALL DEFICIENCIES OF ALL EROSION CONTROL MEASURES AT A MINIMUM OF EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT.
- 19) AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

**PERMITTEE REQUIREMENTS FOR INSPECTION:**

- 1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH 24 HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- 2) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER: (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- 3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING CONSTRUCTION THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- 4) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- 5) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(4). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

**RETENTION OF RECORDS:**

- 1) THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
  - A) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO ADEQ;
  - B) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
  - C) THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
  - D) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
  - E) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
  - F) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT.
- 2) COPIES OF ALL NOI'S, NOTS, REPORTS, PLANS, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.
  - H)

**WASTE DISPOSAL:**

- 1) HAZARDOUS MATERIALS: ALL WASTE MATERIALS WILL BE COLLECTED AND STORED TO BE PROPERLY DISPOSED OF AT A LICENSED SOLID WASTE MANAGEMENT COMPANY. LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES, AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOIL. DISPOSAL SHALL BE PERIODICALLY AS NEEDED. NO CONSTRUCTION MATERIALS WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED CONCERNING WASTE DISPOSAL. THE CONTRACTOR WILL BE RESPONSIBLE FOR THIS INSTRUCTION, AND WILL BE RESPONSIBLE FOR SEEING THAT THESE INSTRUCTIONS ARE FOLLOWED.
- 2) HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
- 3) SANITARY WASTE: IF NEEDED, PORTABLE UNITS WILL BE USED TO COLLECT SANITARY WASTE. ALL SANITARY WASTE TO BE DISPOSED OF PROPERLY ACCORDING TO STATE AND FEDERAL CODE. A MINIMUM OF ONE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON SITE.

**SPILL PREVENTION AND CONTROL NOTES:**

- 1) PETROLEUM PRODUCTS: ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- 2) FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A CLEAN, DRY PLACE. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- 3) PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
- 4) AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB
- 5) ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS.
- 6) PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL
- 7) SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER
- 8) WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER
- 9) MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED
- 10) THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.
- 11) THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
  - A) PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.
  - B) ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED.
  - C) IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.
- 12) MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- 13) MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS AS APPROPRIATE.
- 14) ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- 15) THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- 16) SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- 17) THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RE-OCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- 18) THE CONTRACTOR RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. ANY SPILL SHALL BE REPORTED TO HIM FOR IMMEDIATE ACTION AS SOON AS THE SPILL IS DISCOVERED.
- 19) THERE SHALL NOT BE A CONCRETE WASH AREA ON-SITE. IF SO, IT SHALL BE LOCATED IN AN UPLAND AREA AWAY FROM DRAINAGE AREAS FOR WASH FACILITY, CONTAIN WITH BARRICADES IF STORAGE IS CONDUCTED ON-SITE.
- 20) FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER) OR FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HRS., 1-800-426-2675.

**SITE DETAILS:**

- 1) NATURE OF THE CONSTRUCTION ACTIVITY = DEMOLITION, CLEARING & GRUBBING, AND RETAIL DEVELOPMENT
- 2) EXISTING TOPOGRAPHIC MAP = SEE SHEET SERIES V-1
- 3) PLAN INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES = SEE SHEET C-2
- 4) PLAN INDICATING AREAS OF SOIL DISTURBANCE = SEE SHEET SERIES C-2
- 5) SEE SHEET SERIES C-4 FOR ALL STRUCTURAL AND NONSTRUCTURAL BMP'S.
- 6) IDENTIFICATION OF RECEIVING WATER(S) = ARKANSAS RIVER
- 7) BUFFERED STATE WATERS PRESENT ON SITE = N/A
- 8) WETLAND ACREAGE AT THE SITE = N/A
- 9) NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP NUMBER 05007C0260K DATED 06/05/2012
- 10) NAMES AND ADDRESSES OF ALL SECONDARY PERMITTEES = N/A
- 11) DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE = SEE SHEET SERIES C-4



STANDARD 13,225-LEFT

CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE

CS PROJECT NUMBER: 073620

**ENGINEER:**

**FORESITE**  
group

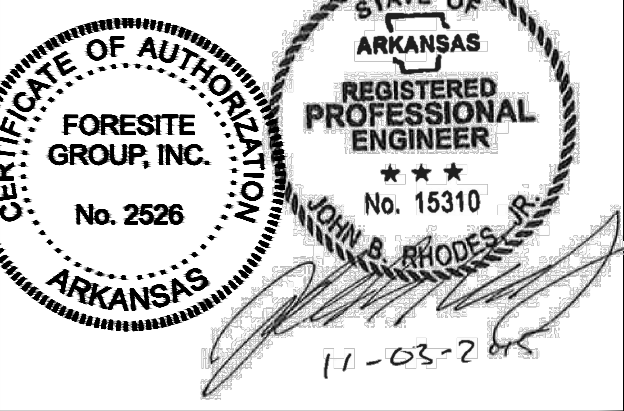
Foresite Group, Inc.  
1999 Bryan St.  
Suite 890  
Dallas, TX 75201  
o | 214.939.7123  
f | 888.765.8135  
w | www.fg-inc.net

**CONSULTANT:**

**DEVELOPER:**

**BOOS**  
DEVELOPMENT GROUP  
BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL. (479) 845-4637  
CONTACT: MR. JOSH KNOTT

**SEAL:**



**REVISIONS:**


DRAWING BY:	RC
DATE:	11/13/2015
JOB NUMBER:	163.257
TITLE:	

**EROSION CONTROL NOTES**

SHEET NUMBER:

C-4.3

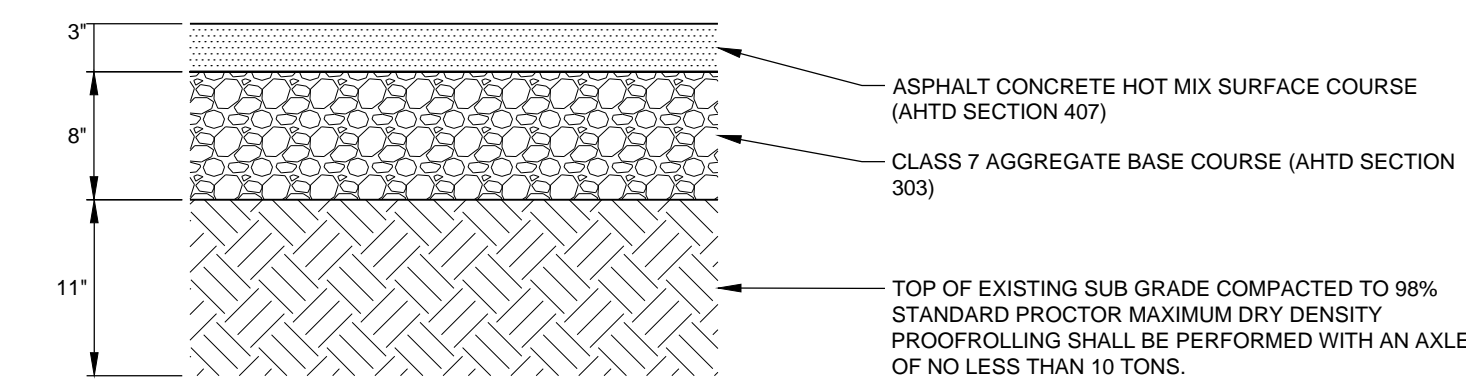
COMMENTS:  
NOT RELEASED FOR CONSTRUCTION



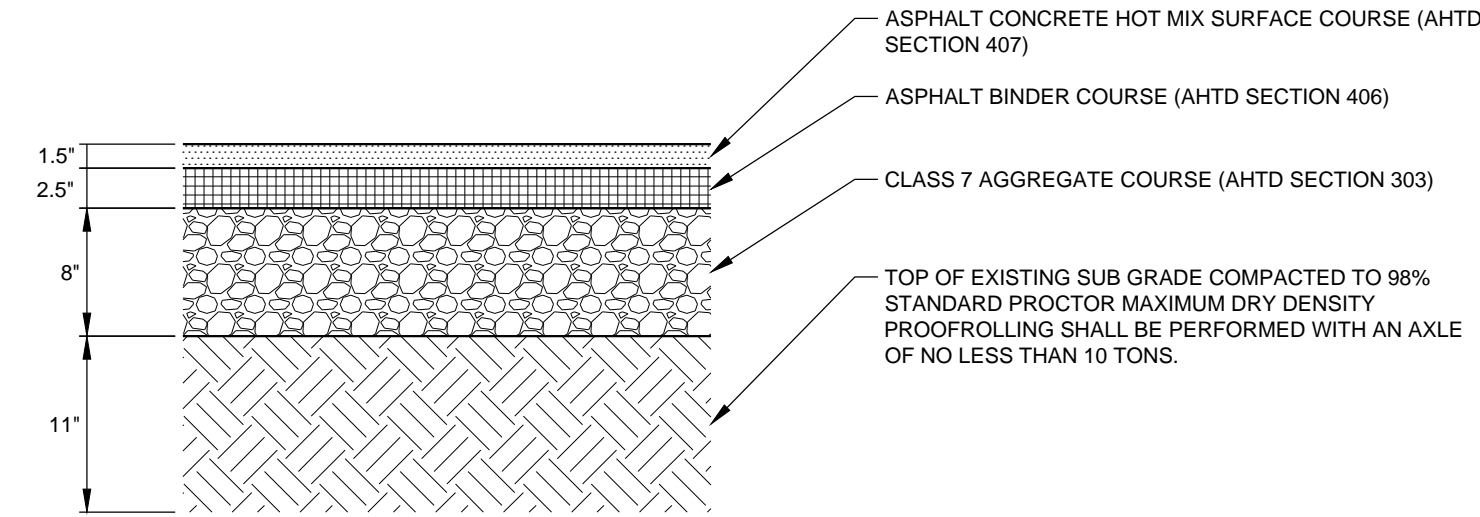
Know what's below  
Call before you dig

SEE SHEET SERIES C-4 FOR EROSION AND  
SEDIMENTATION CONTROL PLANS

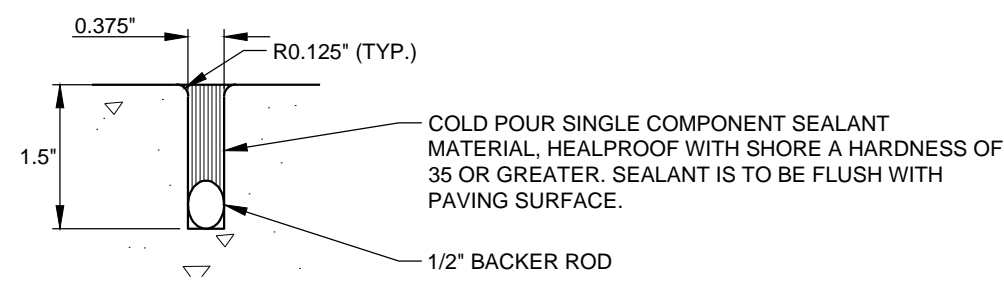
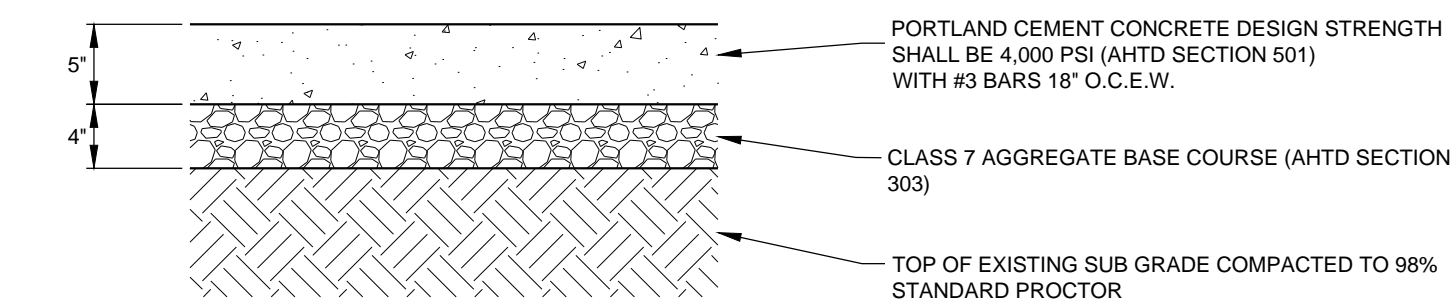




**1 STANDARD DUTY ASPHALT PAVING**  
NOT TO SCALE

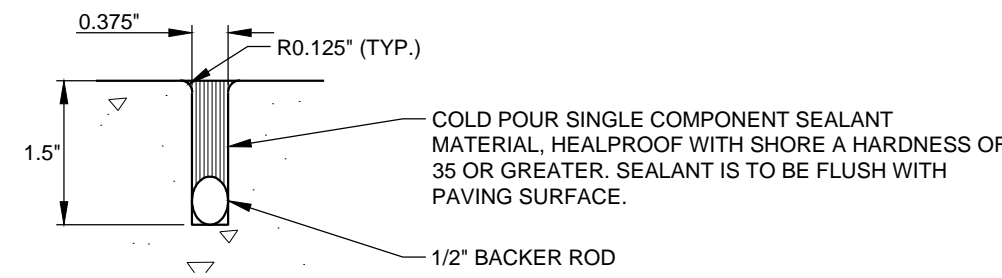
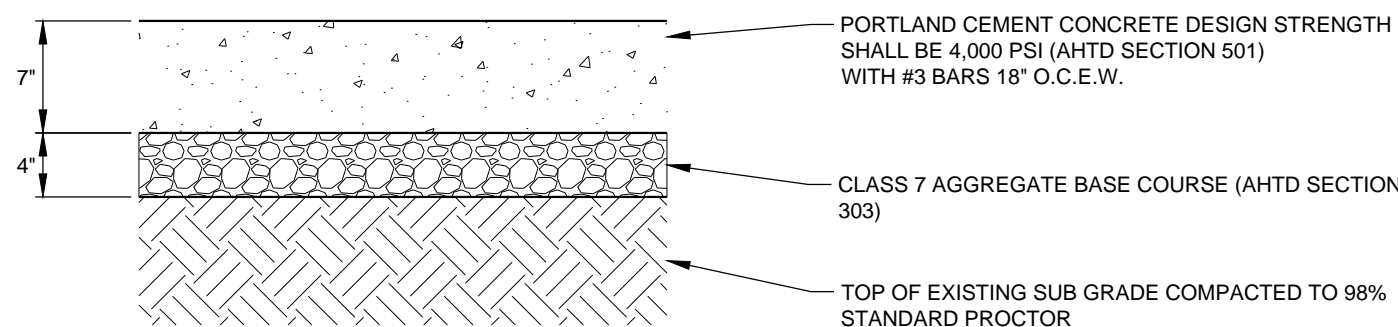


**2 HEAVY DUTY ASPHALT PAVING**  
NOT TO SCALE



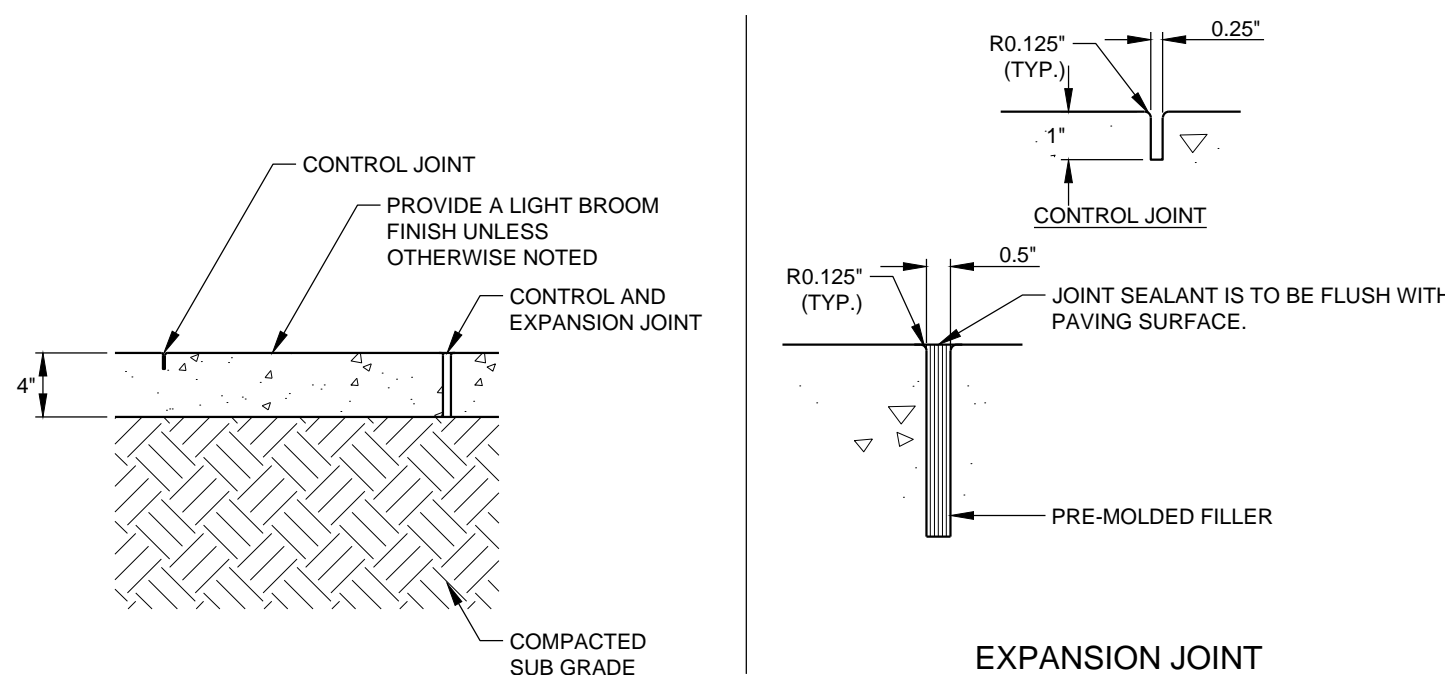
NOTE:  
1. DETAIL REFLECTS STANDARD DUTY CONCRETE PAVING RECOMMENDATION BY PROJECT GEOTECHNICAL ENGINEER.  
2. A TACK COAT SHALL BE APPLIED BETWEEN THE HD SECTION AND THE ON-SITE ASPHALT SECTION.  
3. CONCRETE EXPANSION JOINTS SHALL BE LOCATED AT NO LESS THAN 15' ON CENTER. THE JOINTS SHALL EXTEND TO A DEPTH 1/4 OF THE SLAB THICKNESS. IF SAW CUTTING THE JOINTS IS TO BE EMPLOYED, THE JOINTS SHOULD BE CUT WHILE THE CONCRETE IS STILL "GREEN" AND AS SOON AFTER PLACEMENT AS THE EQUIPMENT CAN BE MOVED ONTO THE PAVEMENT WITHOUT DISTURBING THE CONCRETE FINISH.

**3 STANDARD DUTY CONCRETE PAVING**  
NOT TO SCALE



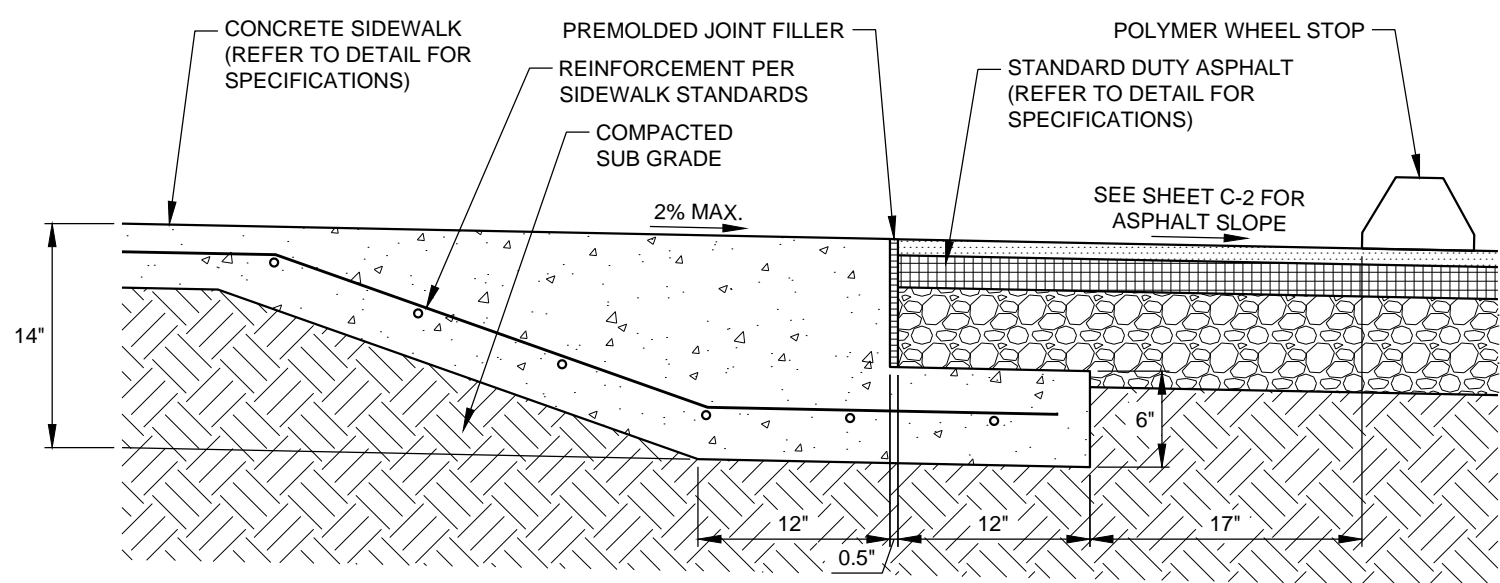
NOTE:  
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3. CONCRETE EXPANSION JOINTS SHALL BE LOCATED AT NO LESS THAN 15' ON CENTER. THE JOINTS SHALL EXTEND TO A DEPTH 1/4 OF THE SLAB THICKNESS. IF SAW CUTTING THE JOINTS IS TO BE EMPLOYED, THE JOINTS SHOULD BE CUT WHILE THE CONCRETE IS STILL "GREEN" AND AS SOON AFTER PLACEMENT AS THE EQUIPMENT CAN BE MOVED ONTO THE PAVEMENT WITHOUT DISTURBING THE CONCRETE FINISH.

**4 HEAVY DUTY CONCRETE PAVING**  
NOT TO SCALE

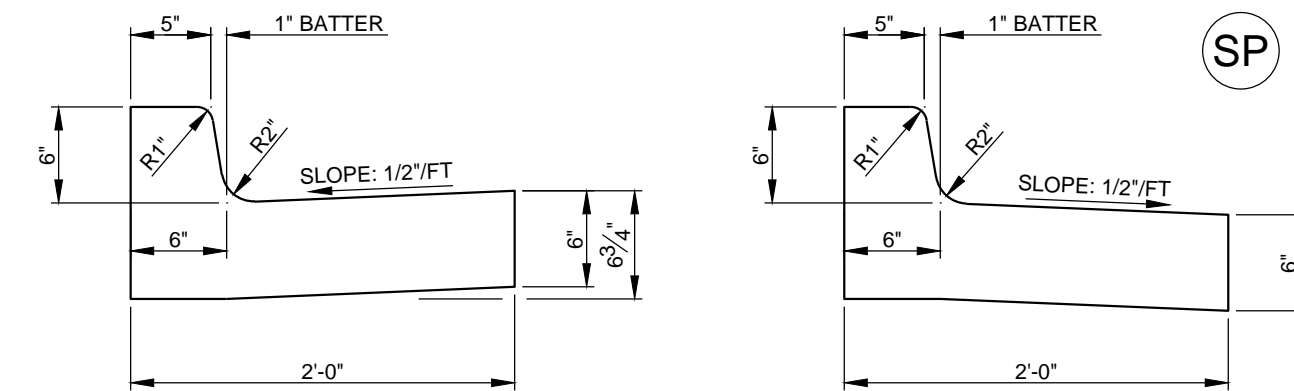


NOTE:  
1. UNLESS OTHERWISE INDICATED, PREFORMED EXPANSION JOINTS TO BE 40'-0" O.C. MAX. OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK UTILITY APPURTENANCE, OR FACE OF STRUCTURE.  
2. UNLESS OTHERWISE INDICATED, CONTROL JOINTS AT 5'-0" O.C.  
3. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1/4" PER FT.

**5 CONCRETE SIDEWALK**  
NOT TO SCALE



**6 CONCRETE SIDEWALK / ASPHALT TRANSITION**  
NOT TO SCALE



NOTE:  
1. 1/2" PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.  
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'  
3. MAXIMUM DISTANCE DUMMY JOINTS = 10.0'  
4. CONCRETE STRENGTH = 3000 P.S.I., SLOPE = 2" MAX. FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.

**7 24" CONCRETE CURB AND GUTTER**  
NOT TO SCALE



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756

PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE

CS PROJECT NUMBER: 073620

ENGINEER:



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1999 Bryan St.  
Suite 890  
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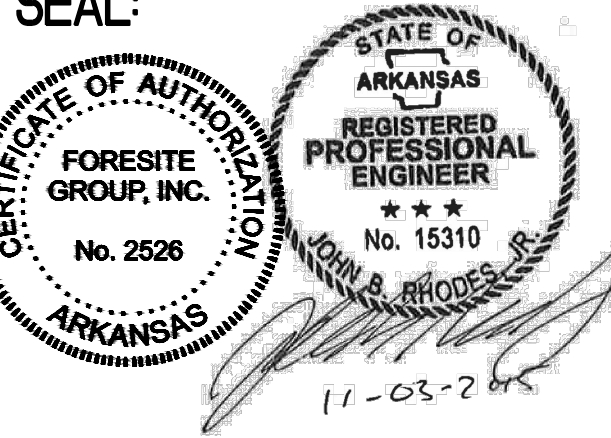
CONSULTANT:

DEVELOPER:



BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:



REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE:

PAVING DETAILS

SHEET NUMBER:

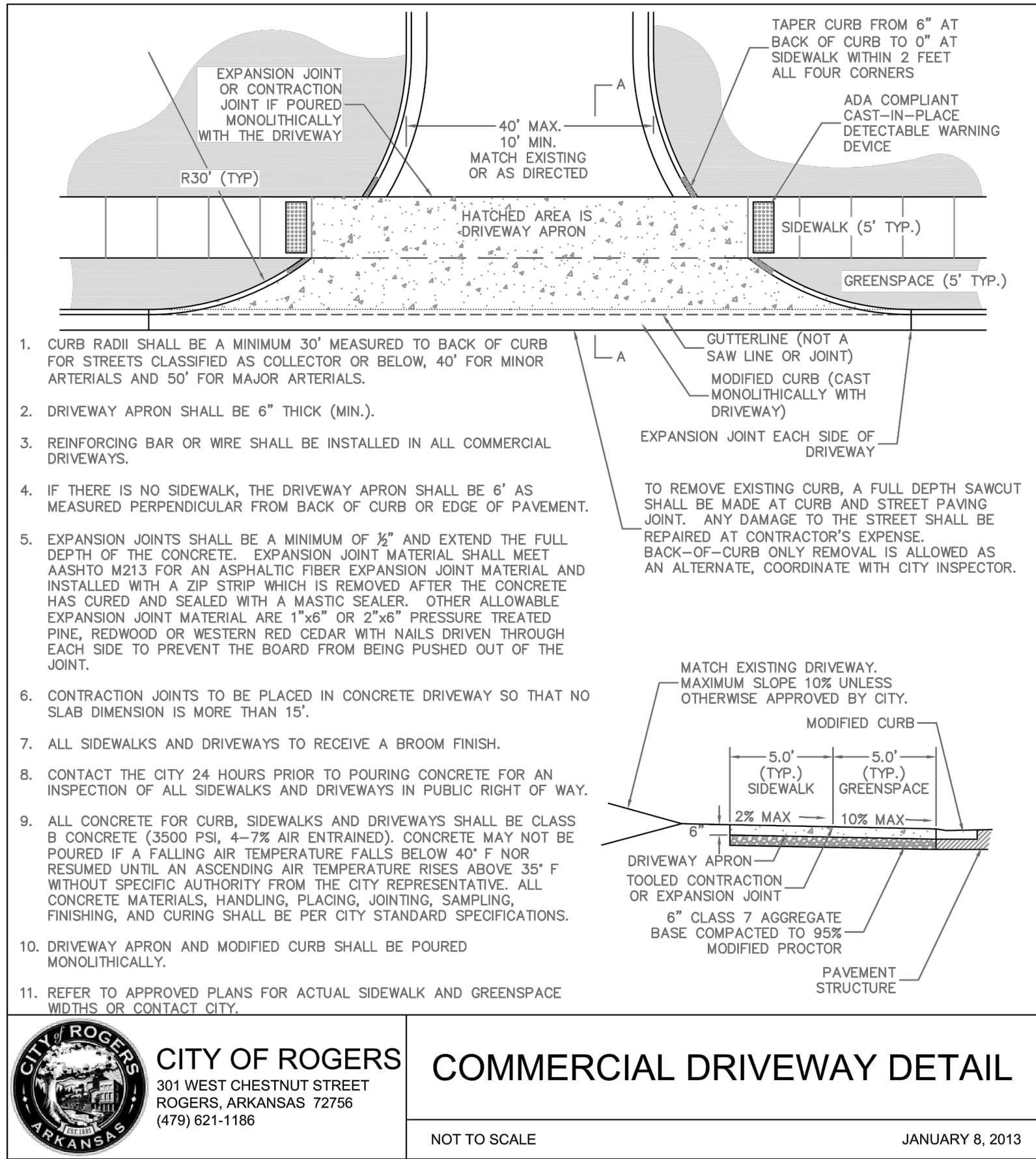
C-5

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION

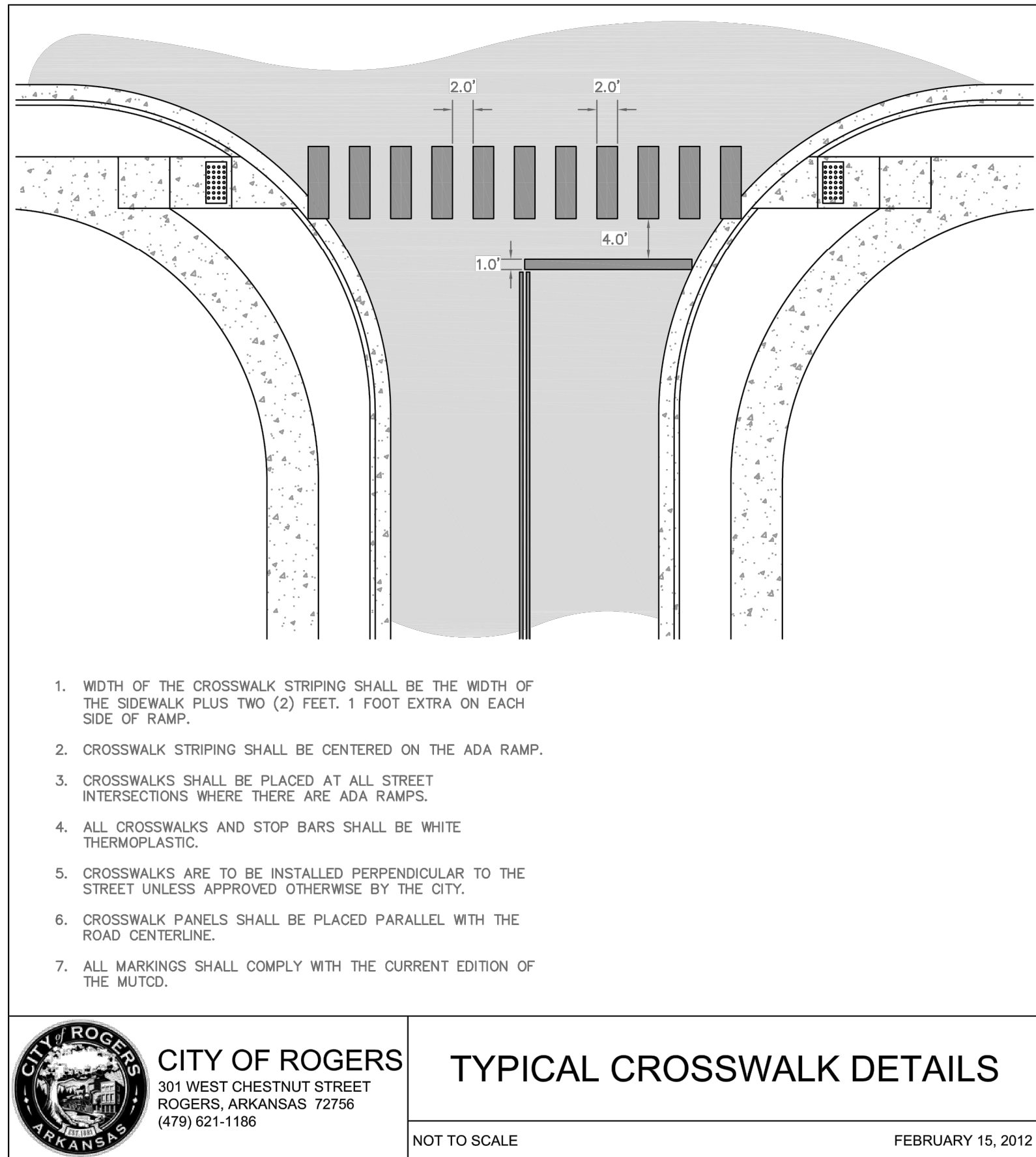








1  
C-5.2 CITY OF ROGERS - COMMERCIAL DRIVEWAY DETAIL  
NOT TO SCALE



2  
C-5.2 CITY OF ROGERS - TYPICAL CROSSWALK DETAIL  
NOT TO SCALE



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

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DEVELOPER:

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DEVELOPMENT GROUP

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TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:

CERTIFICATE OF AUTHORITY  
FORESITE GROUP, INC.  
No. 2526  
ARKANSAS

STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 15310  
JOSH S. RHODES  
11-03-2015

REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE:

PAVING DETAILS CITY OF ROGERS  
SHEET NUMBER:

C-5.2

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION





**LAG BOLT METHOD:** RECOMMENDED FOR ASPHALT OR CONCRETE TRAFFIC LANES WHERE DRILLING HOLES ARE PERMITTED

**HARDWARE SUPPLIED:**  
1/2" X 8" LAG BOLT FOR EACH HOLE  
(2) 1/2" WASHERS EACH  
1/2" LAG ANCHOR

**TOOLS REQUIRED:**  
HIGH SPEED HAMMER DRILL WITH 1/4" MASONRY BIT IMPACT WRENCH OR HEAVY RATCHET WITH 3/4" SOCKET.

1. CLEAN THE SURFACE SO THAT IT IS FREE FROM DIRT.
2. PLACE THE PARKING BLOCK IN ITS INSTALLATION POSITION AND MARK THE LOCATION OF EACH HOLE USING THE PRE-DRILLED HOLES AS A TEMPLATE.
3. REMOVE THE PARKING BLOCK USING A HIGH-SPEED HAMMER DRILL WITH A 3/4" MASONRY BIT, DRILL A HOLE AT EACH MARKED LOCATION TO A DEPTH OF 1 1/2" (38mm).
4. INSERT LAG ANCHOR INTO EACH HOLE (LARGE ANCHOR OPENING ON TOP). TAP THE ANCHOR INTO THE HOLE WITH A HAMMER SO THAT THE ANCHORS ARE SET FLUSH WITH THE SURFACE. PLACE A WASHER OVER EACH ANCHOR HOLE.
5. REPOSITION THE PARKING BLOCK IN ITS INSTALLATION POSITION. SLIP A WASHER ONTO A LAG BOLT, INSERT THE BOLT THROUGH A PRE-DRILLED HOLE IN THE PARKING BLOCK AND TIGHTEN THE BOLT UNTIL ABOUT THREE-QUARTERS OF THE WAY WITH THE 3/4" SOCKET. REPEAT FOR EACH HOLE IN THE PARKING BLOCK. FINISH TIGHTENING EACH BOLT UNTIL JUST SNUG. **DO NOT OVERTIGHTEN!** EXCESSIVE TIGHTENING MAY DAMAGE THE BUMP AND VOID THE PRODUCT WARRANTY.

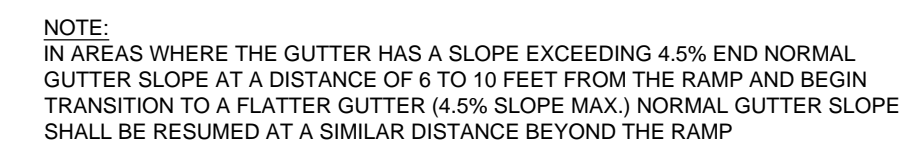
2 POLYMER WHEEL STOP  
C-6 NOT TO SCALE



9  
C-6



10 ACCESSIBLE CURB RAMP  
C-6 NOT TO SCALE



**NOTE:**  
IN AREAS WHERE THE GUTTER HAS A SLOPE EXCEEDING 4.5% END NORMAL  
GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN  
TRANSITION TO A FLATTER GUTTER (4.5% SLOPE MAX.) NORMAL GUTTER SLOPE  
SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

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SEAL:



REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE: \_\_\_\_\_

## CONSTRUCTION DETAILS

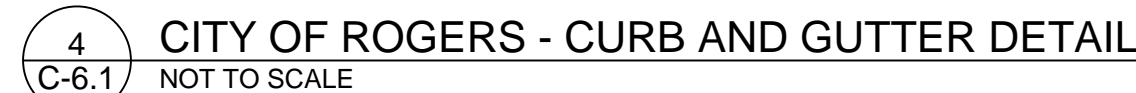
SHEET NUMBER:

C-6

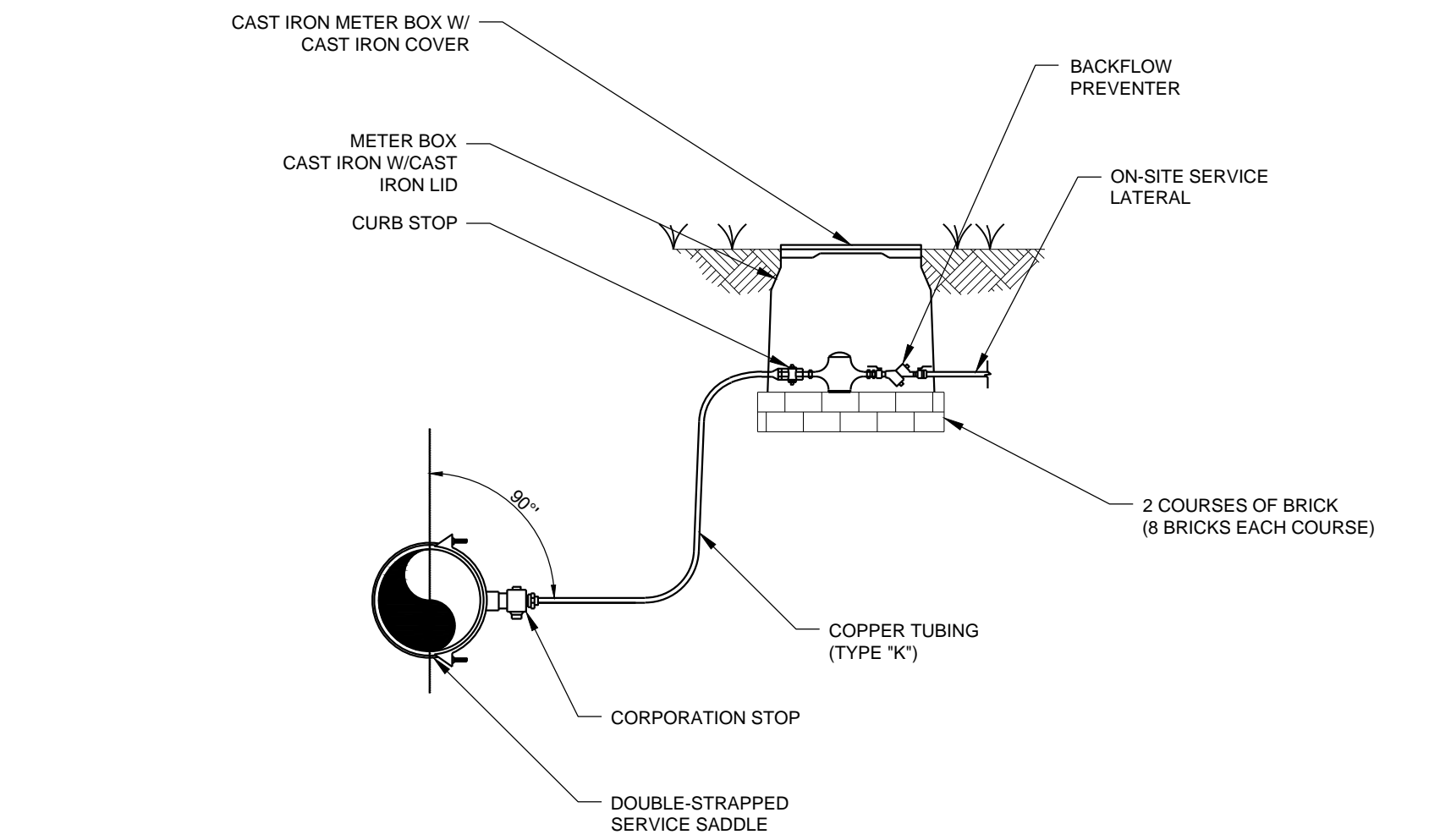
COMMENTS:

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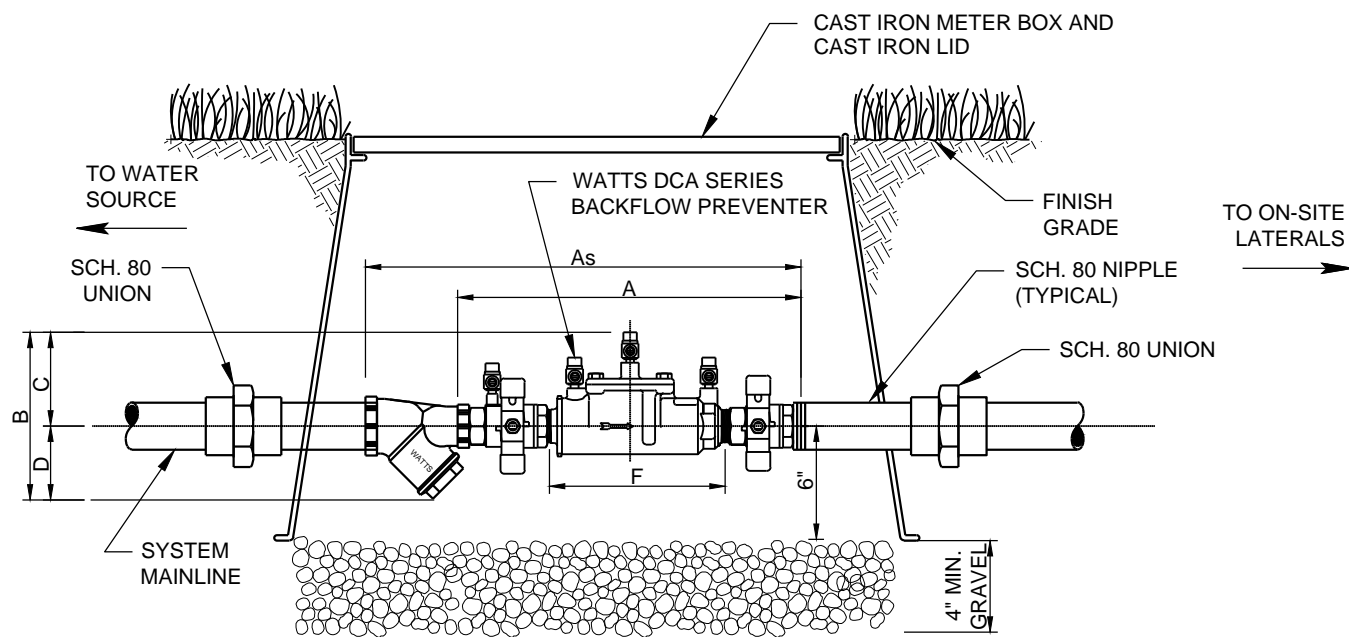






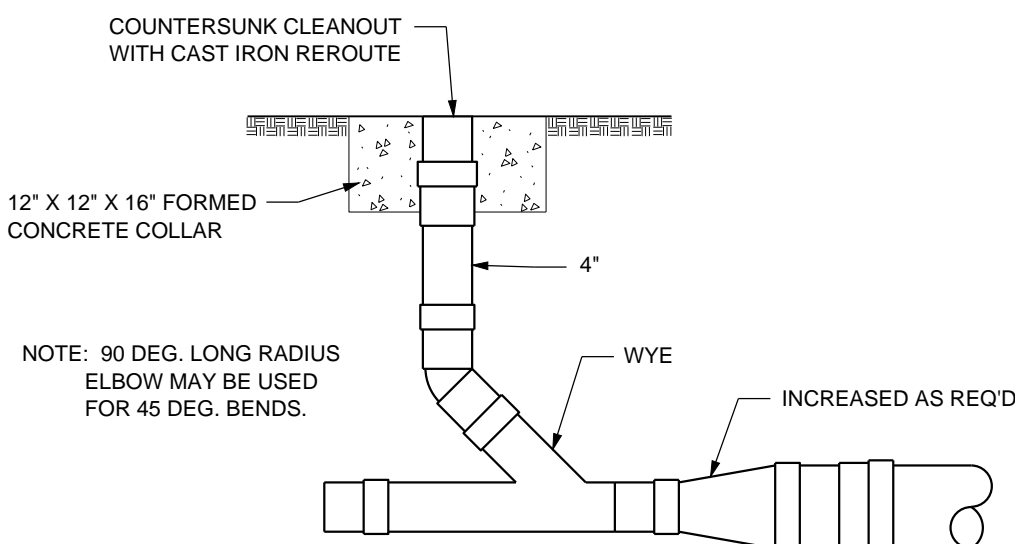
DIMENSIONS (INCHES)									
A	MODEL	A	As	B	C	D	F	G	
3/4"	007M3QT-S	11-1/8	14-1/2	6-1/8	3-1/8	3	6-3/16	3-7/16	
1"	007M1QT-S	13-1/4	17-15/16	7-3/4	4	3-1/4	7-1/2	3-3/8	
1-1/2"	007M2QT-S	16-3/4	25-1/16	7-1/16	3-1/2	3-3/4	9-3/4	5-13/16	
2"	007M1QT-S	19-1/2	27-1/4	8-3/4	4	4	13-3/8	6-1/8	

CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES IN REFERENCE TO INSTALLATION AND VENTING OF BACKFLOW PREVENTION DEVICE.

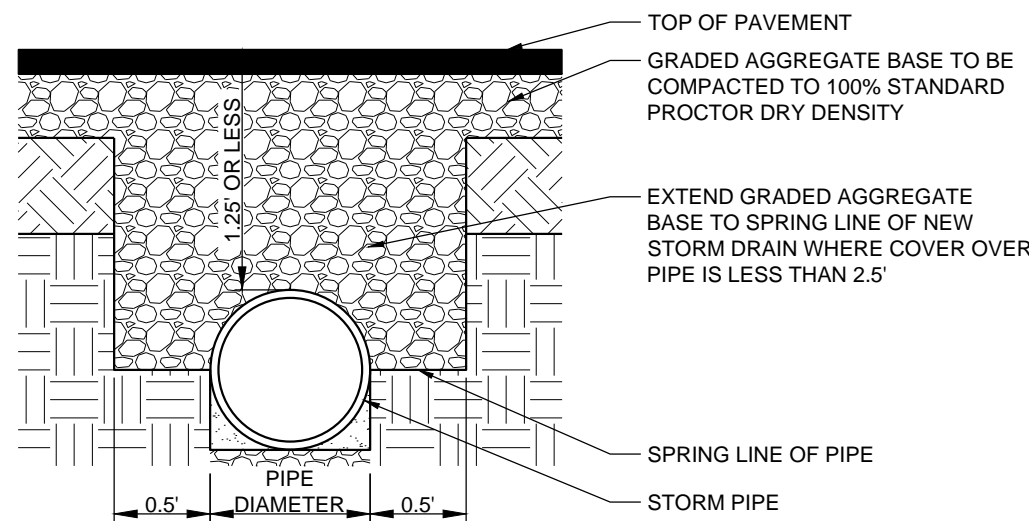


# 1 WATER METER AND DOUBLE CHECK VALVE BACKFLOW DEVICE C-7 NOT TO SCALE

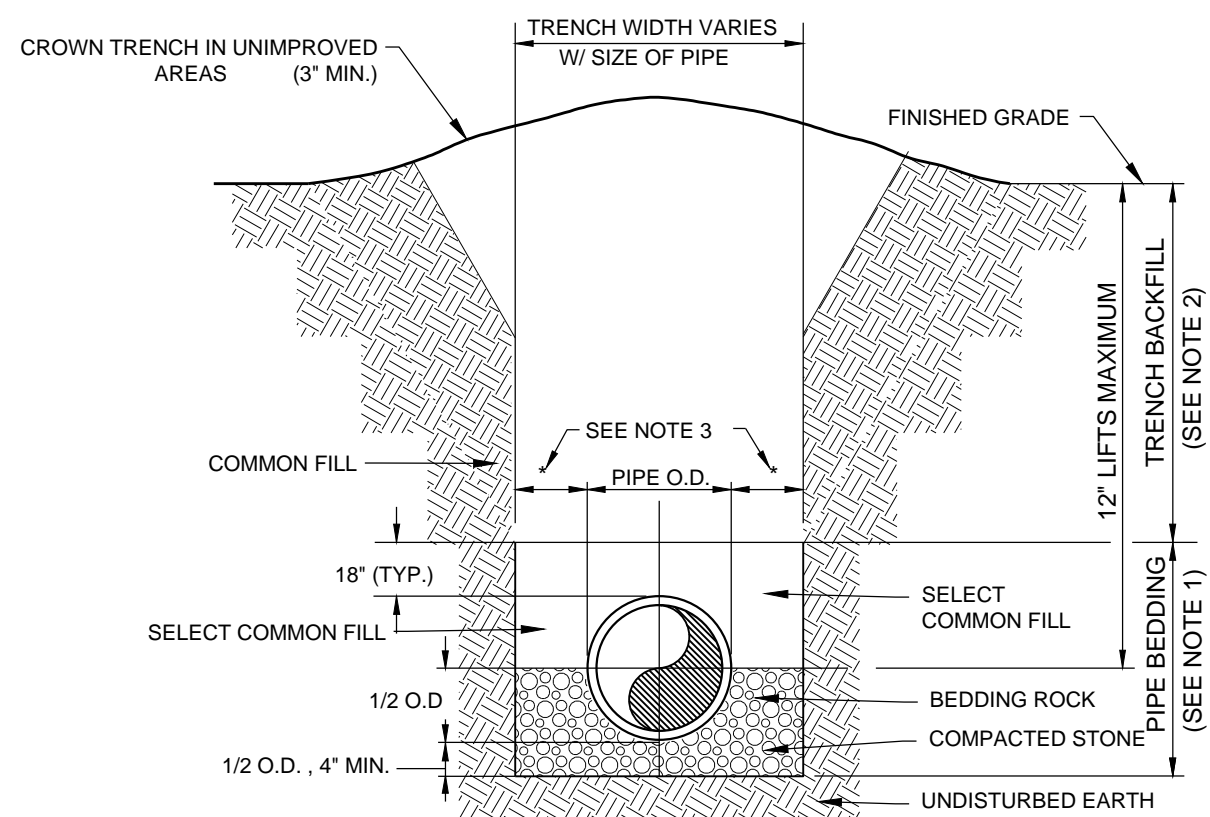
\* CONTACTOR SHALL SUBMIT BACKFLOW DETAIL TO LOCAL AUTHORITIES FOR APPROVAL BEFORE STARTING CONSTRUCTION.



# 2 CLEANOUT C-7 NOT TO SCALE

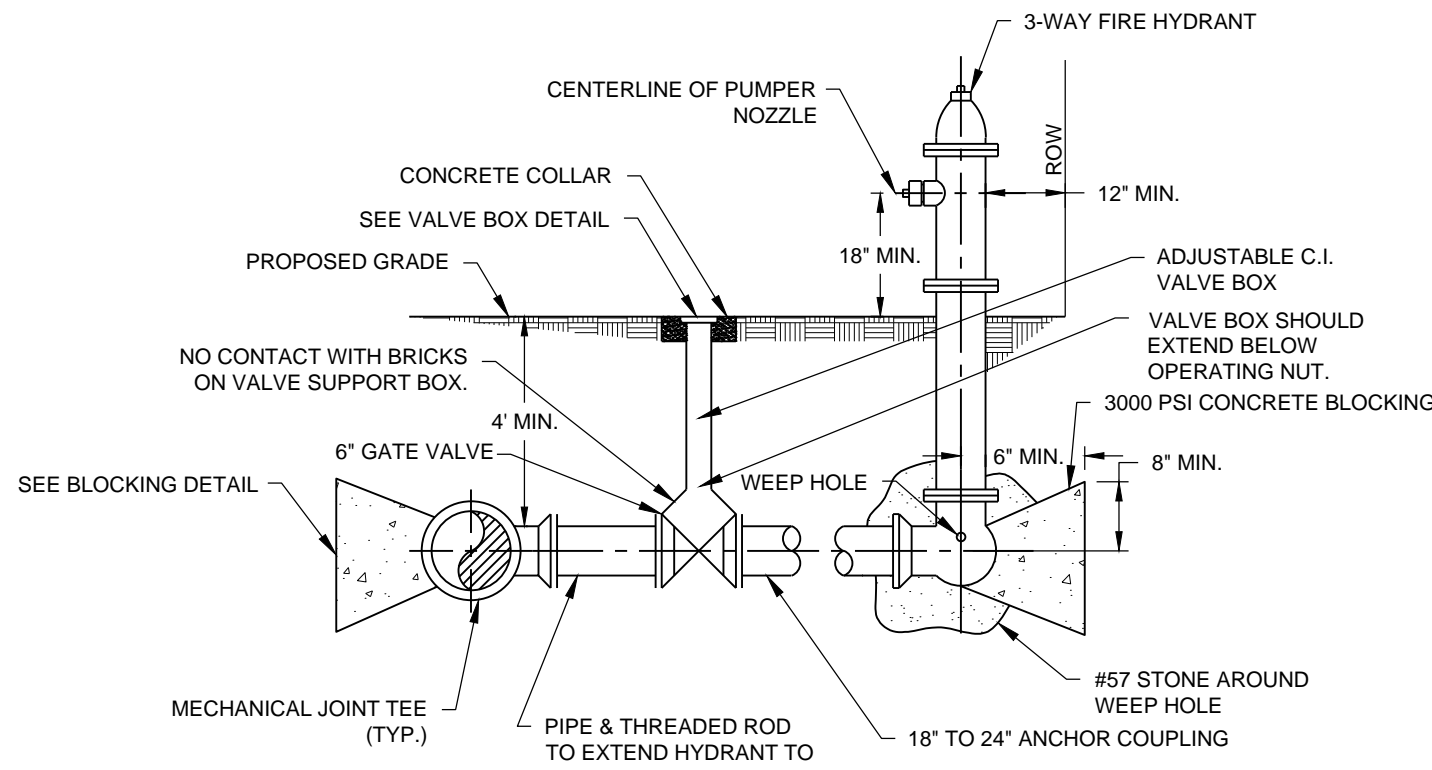


# 3 MINIMUM COVER FOR STORM DRAIN PIPES C-7 NOT TO SCALE

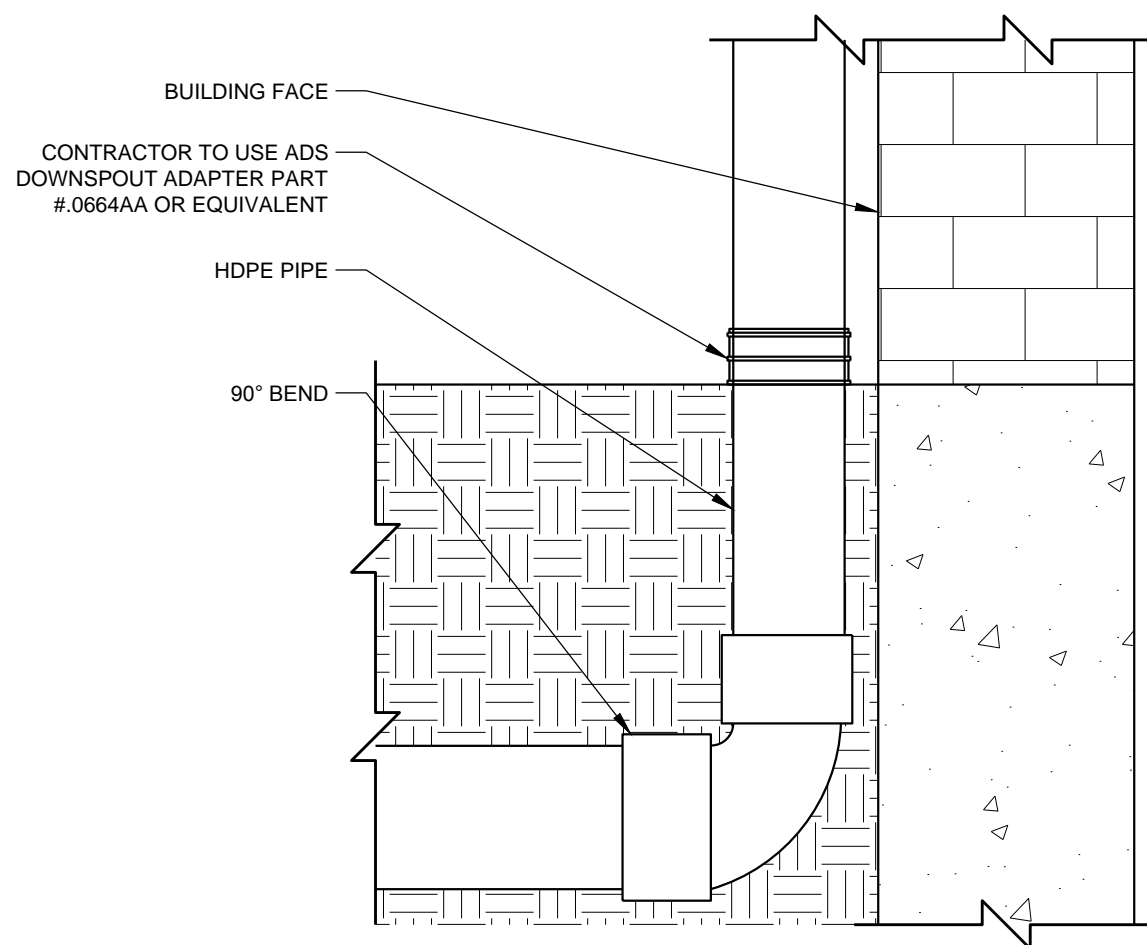


- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- (") 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX (12" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
- WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
- REFER TO THE SECTION OF THE ALDOT STANDARDS FOR SHEETING AND BRACING IN EXCAVATIONS.
- DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. A CERTIFIED GEOTECHNICAL ENGINEER SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

# 4 CLASS B BEDDING AND TRENCHING C-7 NOT TO SCALE



# 5 FIRE HYDRANT C-7 NOT TO SCALE



# 6 DOWNSPOUT CONNECTION C-7 NOT TO SCALE

**CVS**  
pharmacy®

STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU

STORE NUMBER: 10816

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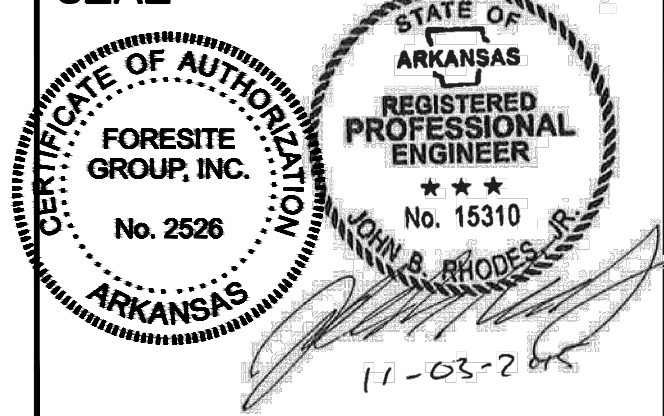
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SEAL:



REVISIONS:

DRAWING BY: RC

DATE: 11/13/2015

JOB NUMBER: 163.257

TITLE:

UTILITIES DETAILS

SHEET NUMBER:

**C-7**

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION



CS PROJECT NUMBER: 073620

ENGINEER:

**FORESITE**  
group

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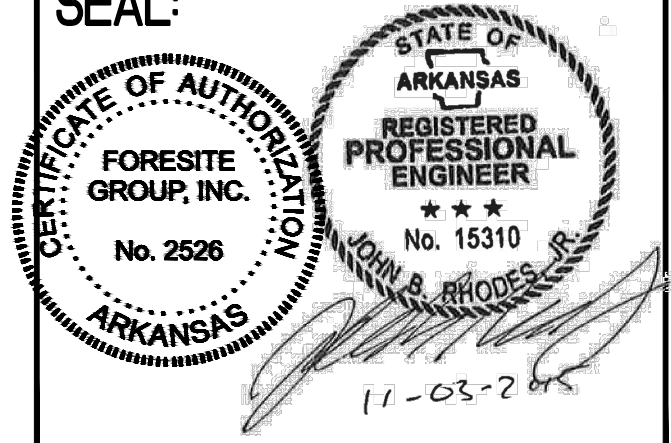
CONSULTANT:

DEVELOPER:



**DEVELOPMENT GROUP**  
BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:



EVISIONS:

DRAWING BY: RC

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TLE:

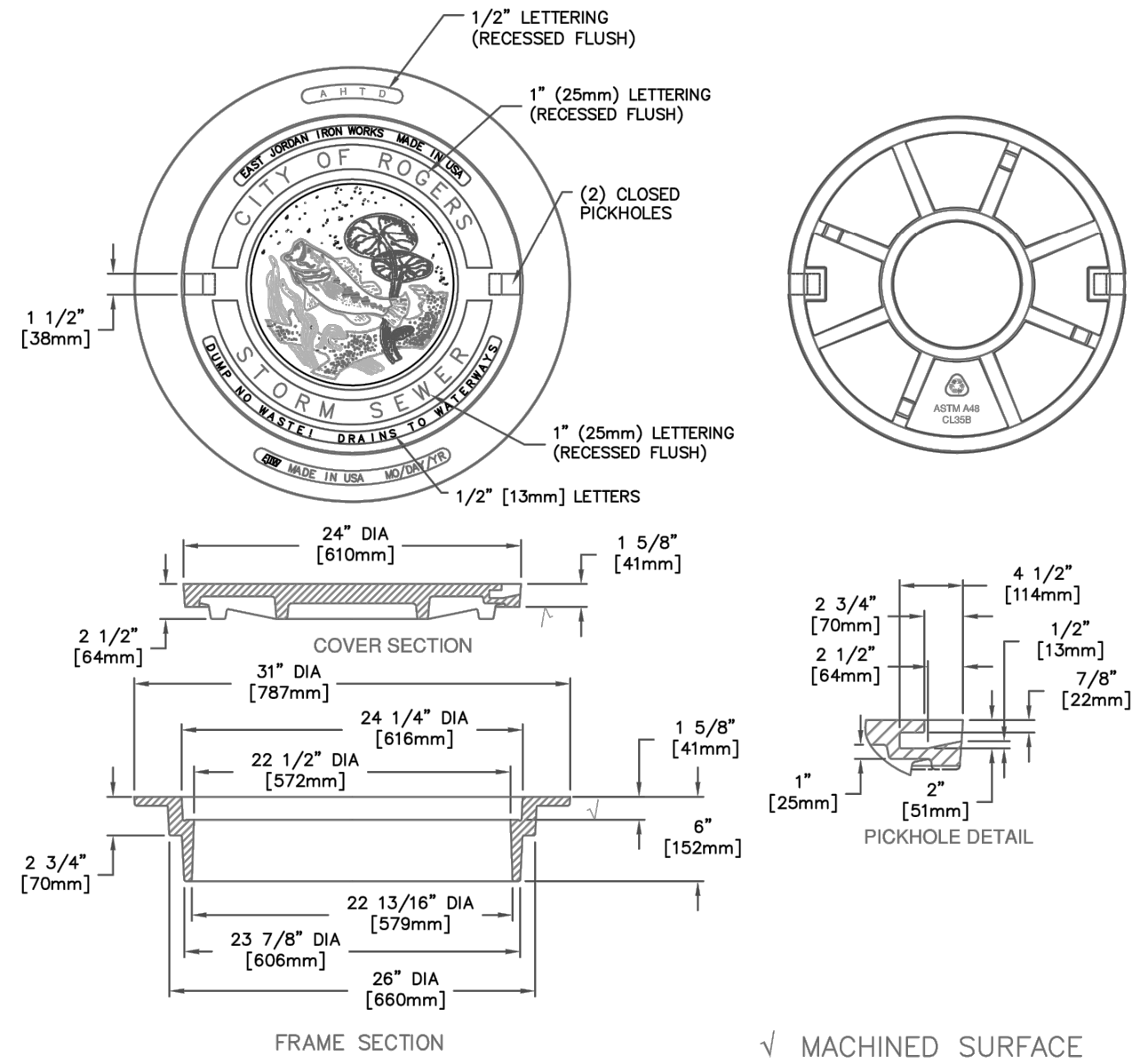
UTILITY DETAILS CITY OF ROGERS

SHEET NUMBER:

## C-7.1

COMMENTS:

NOT RELEASED FOR CONSTRUCTION



1. SHALL BE USED ON ALL STORM SEWER MANHOLE COVERS.
2. ALL COVERS SHALL BE RATED HEAVY DUTY.
3. EAST JORDAN IRON WORKS PRODUCT 2750 ASSEMBLY SHOWN, AN APPROVED EQUAL MAY ALSO BE USED.



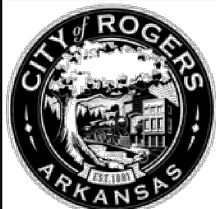
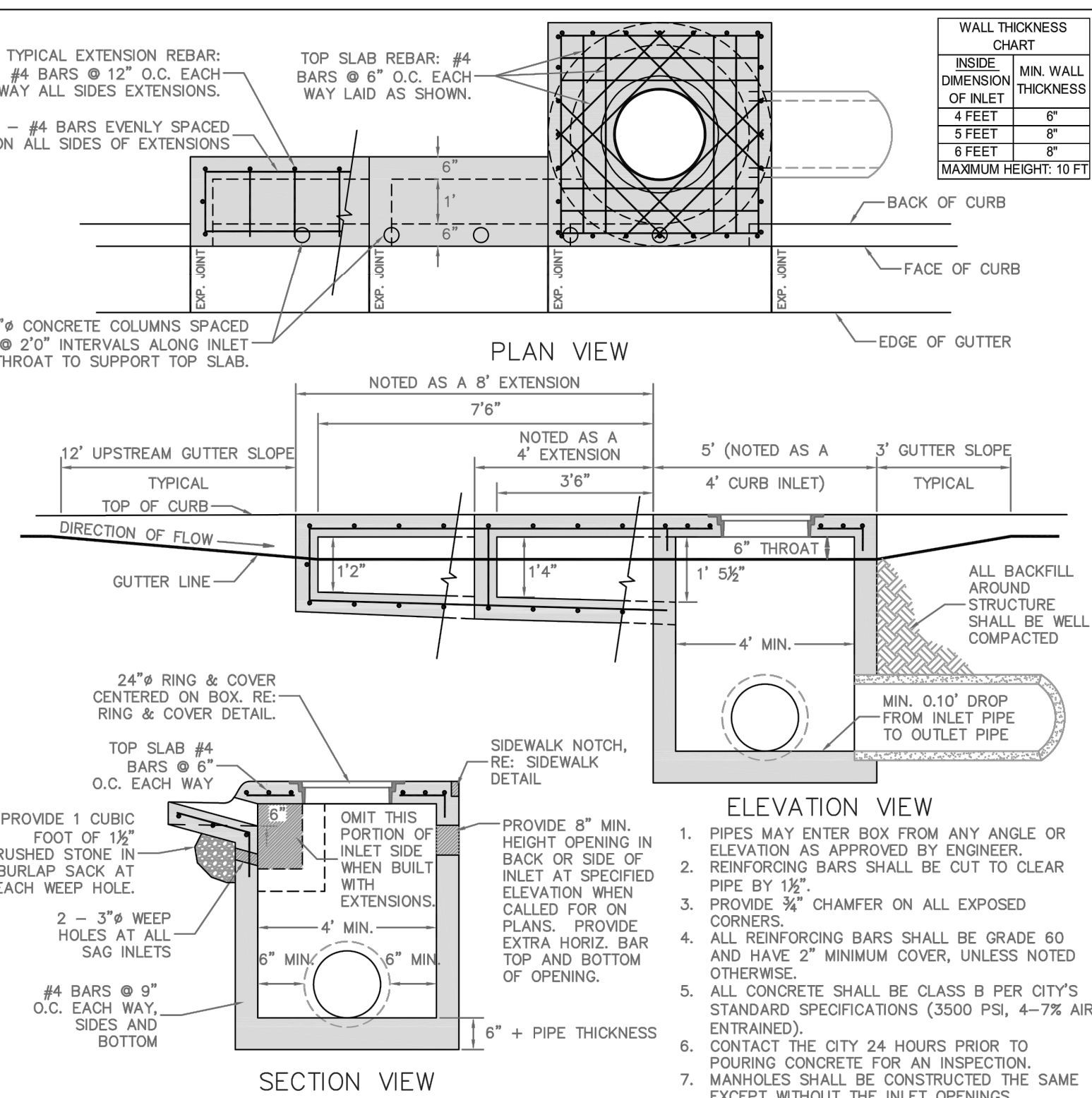
**CITY OF ROGERS**  
301 WEST CHESTNUT STREET  
ROGERS, ARKANSAS 72756  
(479) 621-1186

### RING AND COVER DETAIL

NOT TO SCALE

FEBRUARY 15, 2012

# 1 C-7.1 CITY OF ROGERS - RING AND COVER DETAIL NOT TO SCALE



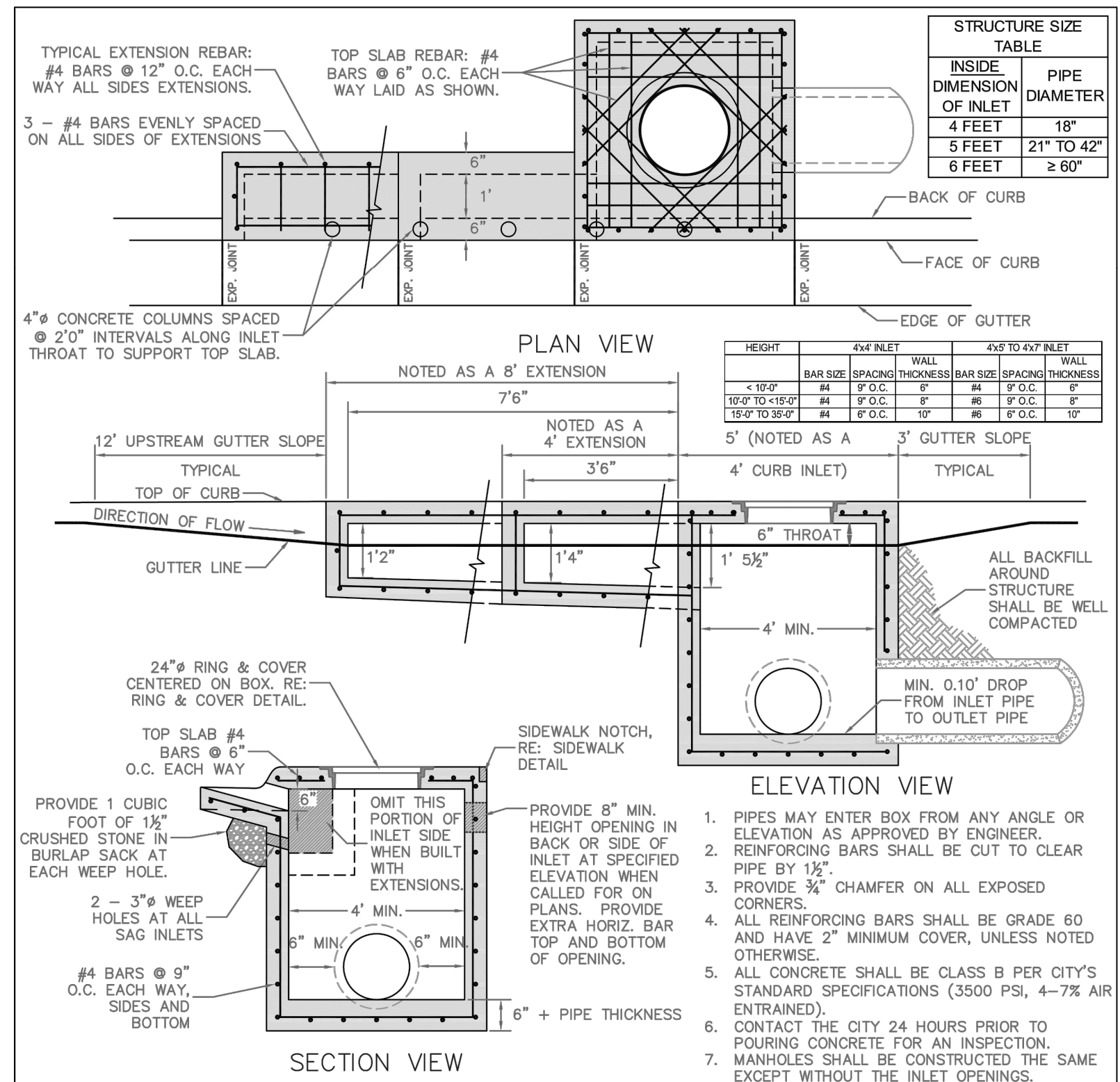
**CITY OF ROGERS**  
301 WEST CHESTNUT STREET  
ROGERS, ARKANSAS 72756  
(479) 621-1186

### CIRCULAR CURB INLET / MANHOLE DETAIL

NOT TO SCALE

FEBRUARY 15, 2012

2 CITY OF ROGERS - CIRCULAR CURB INLET/MANHOLE DETAIL  
C-7.1 NOT TO SCALE



**CITY OF ROGERS**  
301 WEST CHESTNUT STREET  
ROGERS, ARKANSAS 72756  
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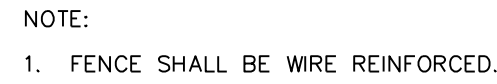
## RECTANGULAR CURB INLET / MANHOLE DETAIL

NOT TO SCALE

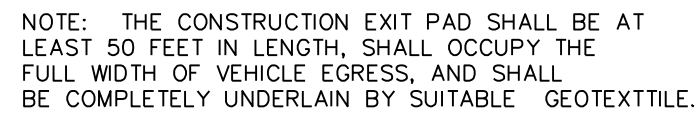
FEBRUARY 15, 2012

3 CITY OF ROGERS - RECTANGULAR CURB INLET/MANHOLE DETAIL  
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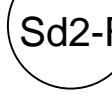




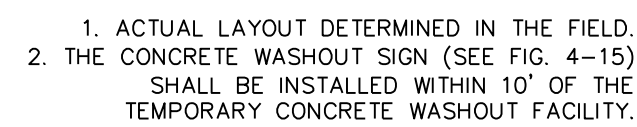
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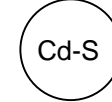
Co



Sd2-f








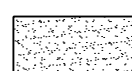


Cw





PLANT SCHEDULE

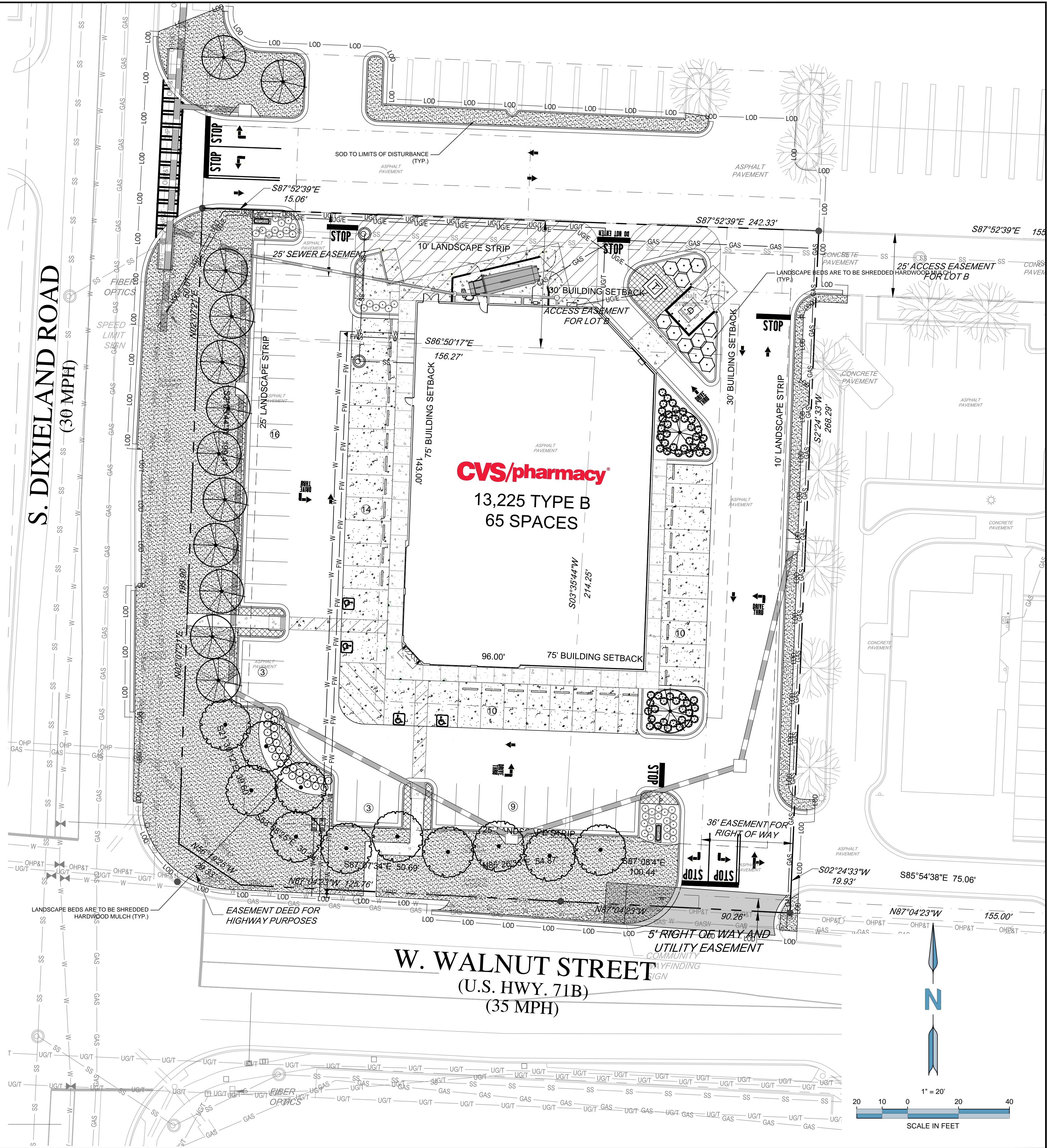
TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	QTY
	PISTACIA CHINENSIS 'KEITH DAVEY' / KEITH DAVEY CHINESE PISTACHE	B & B	2.5" CAL	14
	QUERCUS SHUMARDII / SHUMARD RED OAK	B & B	2.5" CAL	11
SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	QTY
	ILEX CORNUTA 'NEEDLEPOINT' / NEDDLEPOINT HOLLY	5 GAL	36" o.c.	27
	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP JUNIPER	5 GAL	36" o.c.	56
	MUHLENBERGIA LINDHEIMERI 'LENI' / AUTUMN GLOW MUHLY	5 GAL	36" o.c.	41
	VIBURNUM RHYTIDOPHYLLUM 'ALLEGHANY' / LEATHERLEAF VIBURNUM	5 GAL	72" o.c.	12
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
	LIRIOPE SPICATA / CREEPING LILY TURF	4" POT	10" o.c.	1,319
SOD/SEED	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
	CYNODON DACTYLON 'TIF 419' / BERMUDA GRASS	SOD		18,935 SF

LANDSCAPE CODE REQUIREMENTS AND CALCULATIONS:

- REQUIRED LANDSCAPE AREAS ALONG THE HIGHWAY FRONTAGE SHALL BE NO LESS THAN 25 FEET DEEP EXCLUSIVE OF THE RIGHT-OF-WAY. WITHIN THIS AREA THE DEVELOPER WILL PLANT TREES AT 20-FOOT SPACING FOR THE FULL WIDTH OF THE FRONTAGE. ALL PLANT MATERIALS ON THE SITE MUST MEET THE REQUIREMENTS OF DIVISION 3 OF THIS ARTICLE. TREES PROVIDED AS PART OF THE OVERLAY DISTRICT REQUIREMENT APPLY TOWARD THE MINIMUM PLANT REQUIREMENT OF DIVISION 3 OF THIS ARTICLE. DEVELOPER SHOULD ATTEMPT TO INCORPORATE EXISTING ON-SITE TREES INTO THE LANDSCAPING PLAN AND INDICATE ON PLAN. SEC. 14-285 (5)
- LENGTH OF FRONTAGE = 455 L.F.  
455 L.F. / 20 L.F. = 23 TREES REQUIRED ALONG FRONTAGE
- TREE SPECIES TO BE PLANTED WITHIN THESE CORRIDORS SHOULD BE CONSISTENT WITH THE RECOMMENDED PLANTS LIST. SEC. 14-285 (8)
- A PERCENTAGE OF THE TOTAL LAND AREA WILL BE DEVOTED TO LANDSCAPING. IF THE TOTAL LAND AREA IS TWO ACRES OR LESS, DEVELOPER MUST PROVIDE EITHER 20 PERCENT GREEN SPACE WITH AT LEAST ONE NEW TREE OR SHRUB MEETING THE PLANT CRITERIA HEREIN FOR EACH 1,000 SQUARE FEET OF THE TOTAL LAND AREA, OR, 15 PERCENT GREEN SPACE WITH ONE TREE OR SHRUB FOR EVERY 500 SQUARE FEET OF TOTAL LAND AREA. TREE SIZE MUST BE INCREASED FROM 2 1/2-INCH BALL AND BURLAP TO FOUR-INCH BALL AND BURLAP IF 15 PERCENT GREEN SPACE IS PROVIDED. SEC. 14-286 (12)
- SITE = 64,239 S.F. X 20% GREEN SPACE = 12,848 S.F. REQUIRED  
15,935 S.F. OF GREEN SPACE PROVIDED - EXCEEDS REQUIREMENT  
64,239 S.F. / 1,000 S.F. = 64 TREES OR SHRUBS REQUIRED IN GREEN SPACE
- CRITERIA FOR PLANT MATERIALS: SEC. 14-286 (14)
  - A. AT LEAST ONE NEW TREE OR SHRUB MEETING THE PLANT CRITERIA HEREIN MUST BE PROVIDED FOR EACH 1,000 SQUARE FEET OF THE TOTAL LAND AREA FOR DEVELOPMENTS UP TO TWO ACRES. AT LEAST ONE NEW TREE OR SHRUB MUST BE PROVIDED FOR EACH 2,000 SQUARE FEET OF THE TOTAL LAND AREA FOR DEVELOPMENTS OVER TWO ACRES.
  - B. NEW PLANTS MAY BE SELECTED FROM THE RECOMMENDED PLANTS LIST PROVIDED BY THE PLANNING AUTHORITY OFFICE. PLANTS SHOULD BE SELECTED FOR HARDINESS IN LOCAL ZONES. PLANTS SHOULD BE ARRANGED TO FACILITATE GROWTH AND AVOID DAMAGE BY DEVELOPMENT.
  - C. DECIDUOUS ORNAMENTAL TREES MUST BE BALLED-AND-BURLAPED, 1 1/2-INCH CALIPER, MINIMUM. DECIDUOUS SHADE TREES MUST BE BALLED-AND-BURLAPED, 2 1/2-INCH CALIPER BY SIX FEET TALL, MINIMUM. SHRUBS ARE TO BE FIVE GALLON SIZE, MINIMUM.
  - D. PERENNIALS FROM THE RECOMMENDED PLANTS LIST QUALIFY AS A PLANT SELECTION TO MEET MINIMUM REQUIREMENTS IN THE RATIO OF 20:1. TWENTY PERENNIALS, SIX-INCH POT SIZE, EQUAL ONE TREE OR SHRUB. PERENNIALS QUALIFY AS PLANT SELECTIONS TO A MAXIMUM OF 25 PERCENT OF THE REQUIRED NUMBER OF PLANTS.
  - E. CREDIT TO THE PLANT REQUIREMENT WILL BE CONSIDERED FOR EXISTING TREES PROVIDED THEY ARE OF A DESIRABLE TYPE, ARE HEALTHY SPECIMENS, THEY CONTRIBUTE TO THE COMPATIBILITY OF THE DEVELOPMENT AND THEY ARE NOT THREATENED BY THE CONSTRUCTION OR PLACEMENT OF THE PROPOSED DEVELOPMENT. QUALIFICATION OR PLACEMENT OF THE PROPOSED PLANT MATERIAL MUST BE VERIFIED WITH THE PLANNING AUTHORITY OFFICE.

GENERAL LANDSCAPE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF PLANT MATERIAL ACCORDING TO DRAWINGS.
- WARRANTY: ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE, HEALTHY, AND IN THRIVING CONDITION FOR A PERIOD OF ONE TO THREE YEARS FROM FINAL ACCEPTANCE
- PLANTS SHALL BE SPECIMEN QUALITY. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF.
- HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO THE MAIN BODY OF THE PLANT AND NOT FROM BRANCH TIP TO TIP. IF A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED.
- SHADE TREES SHALL BE STRAIGHT UNLESS OTHERWISE SPECIFIED
- PLANTS SHALL BE SUBJECT TO REVIEW BY OWNER'S REPRESENTATIVE. OWNER'S REPRESENTATIVE SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF MATERIALS AND PLACEMENT.
- PLANTING PLANS INDICATE DIAGRAMMATIC LOCATIONS ONLY. SITE ADJUSTMENTS OF PLANTING DESIGN AND RELOCATION OF PLANT MATERIAL INSTALLED PRIOR TO OWNER REPRESENTATIVE'S APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER. STAKE PLANT LOCATIONS AT SITE AND OBTAIN OWNER REPRESENTATIVE'S APPROVAL PRIOR TO PLANT INSTALLATION.
- PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE IS VIEWED.
- BE FAMILIAR WITH UNDERGROUND UTILITIES BEFORE DIGGING. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGE OF UTILITY LINES.
- IF DRAINAGE IS NOT SUFFICIENT NOTIFY OWNER'S REPRESENTATIVE IN WRITING BEFORE INSTALLING PLANTS. OTHERWISE, CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE GUARANTEE AND LIVABILITY OF THE PLANT.
- PROVIDE TRENCH EDGING, 7" WIDE AT SHRUB BEDS IN LAWN AREAS UNLESS OTHERWISE NOTED.
- PROVIDE 3" THICKNESS MULCH AT ALL PLANTS AND PLANTING BEDS. MULCH SHALL BE SHREDDED HARDWOOD UNLESS OTHERWISE NOTED.
- MAINTENANCE WORK SHALL BE PERFORMED UNTIL DATE OF FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE.
- FRONDS OR LEAVES: MUST BE OF MEDIUM FOLIAGE, ALL GOOD LEAVES, MAXIMUM OF 10% CHLOROSIS ALLOWED, WITH NO EXTREME SUCCULENCE.
- ROOT SYSTEM: ROOTS MUST BE STURDILY ESTABLISHED IN BALL THAT HAS BEEN TIGHTLY WRAPPED AND SECURELY TIED WITH TWINE OR WIRE, OR PINNED.
- CONTRACTOR'S PRICES SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE WORK, I.E. MULCH, PLANTING, SOIL MIX, WOOD AND WIRE STAKING MATERIAL, ETC.
- WHERE WIRE BASKETS ARE USED ON TREES OR SHRUBS, CUT WIRE BACK TO BASE OF ROOT BALL AND REMOVE FROM PLANTING.
- QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWING SHALL BE FURNISHED. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE OWNER'S REPRESENTATIVE ASSUMES NO LIABILITY FOR OMISSION OR ERRORS. HIS ESTIMATES ARE ONLY AN AID FOR CLARIFICATION OF UNITS AND A CHECK FOR THE CONTRACTOR TO COMPARE WITH HIS OWN ESTIMATES. DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR EXTRA QUANTITIES NECESSARY TO COMPLETE THE WORK.
- WHERE LANDSCAPING AREAS ADJOIN GRASSED RIGHTS-OF-WAY, SUCH AREAS SHALL BE CONSIDERED PART OF THE LANDSCAPED AREA FOR PURPOSES OF MAINTENANCE. AS OF COMPLETION OF SITE IMPROVEMENTS, THE PROPERTY OWNER SHALL HAVE AN IMPLIED EASEMENT OF THE RIGHT-OF-WAY EXTENDING FROM THE SITE TO THE ROAD PAVEMENT IN ORDER TO COMPLETE THE REQUIRED MAINTENANCE.
- A MAINTENANCE INSPECTION OF TREES WILL BE PERFORMED AFTER TWO FULL GROWING SEASONS FROM THE DATE OF THE FINAL CONSTRUCTION INSPECTION. PROJECT OWNERS AT THE TIME OF THE MAINTENANCE INSPECTION ARE RESPONSIBLE FOR ORDINANCE COMPLIANCE.
- CONTRACTOR TO DESIGN-BUILD IRRIGATION SYSTEM.
- STREET TREES AND STREET LIGHTS ARE UNDERSTOOD TO BE REQUIRED AS A PART OF THE PROPOSED DEVELOPMENT. THESE ELEMENTS ARE NOT SHOWN ON THE CURRENT PLAN SET DUE TO THE FACT THAT THE ROADWAY IMPROVEMENT PLANS HAVE NOT BEEN FINALIZED BY THE CITY AT THIS TIME. THE CONTRACTOR SHALL INCLUDE THE INSTALLATION OF THESE ELEMENTS WITHIN HIS BID AND COORDINATE WITH THE CITY FOR THEIR PLACEMENT AND ACCEPTANCE BY THE CITY PRIOR TO THE RELEASE OF THIS CERTIFICATE OF OCCUPANCY.



STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU  
STORE NUMBER: 10816

1749 W WALNUT STREET  
ROGERS, BENTON CO., ARKANSAS 72756  
PROJECT TYPE: NEW CONSTRUCTION  
DEAL TYPE: FEE FOR SERVICE  
CS PROJECT NUMBER: 073620

ENGINEER:



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1999 Bryan St.  
Suite 890  
Dallas, TX 75201  
o | 214.939.7123  
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CONSULTANT:



BOOS DEVELOPMENT GROUP, INC.  
1120 S. WALTON BOULEVARD, SUITE 142  
BENTONVILLE, AR 72712  
TEL (479) 845-4637  
CONTACT: MR. JOSH KNOTT

SEAL:



REVISIONS:

DRAWING BY: AWP  
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TITLE:

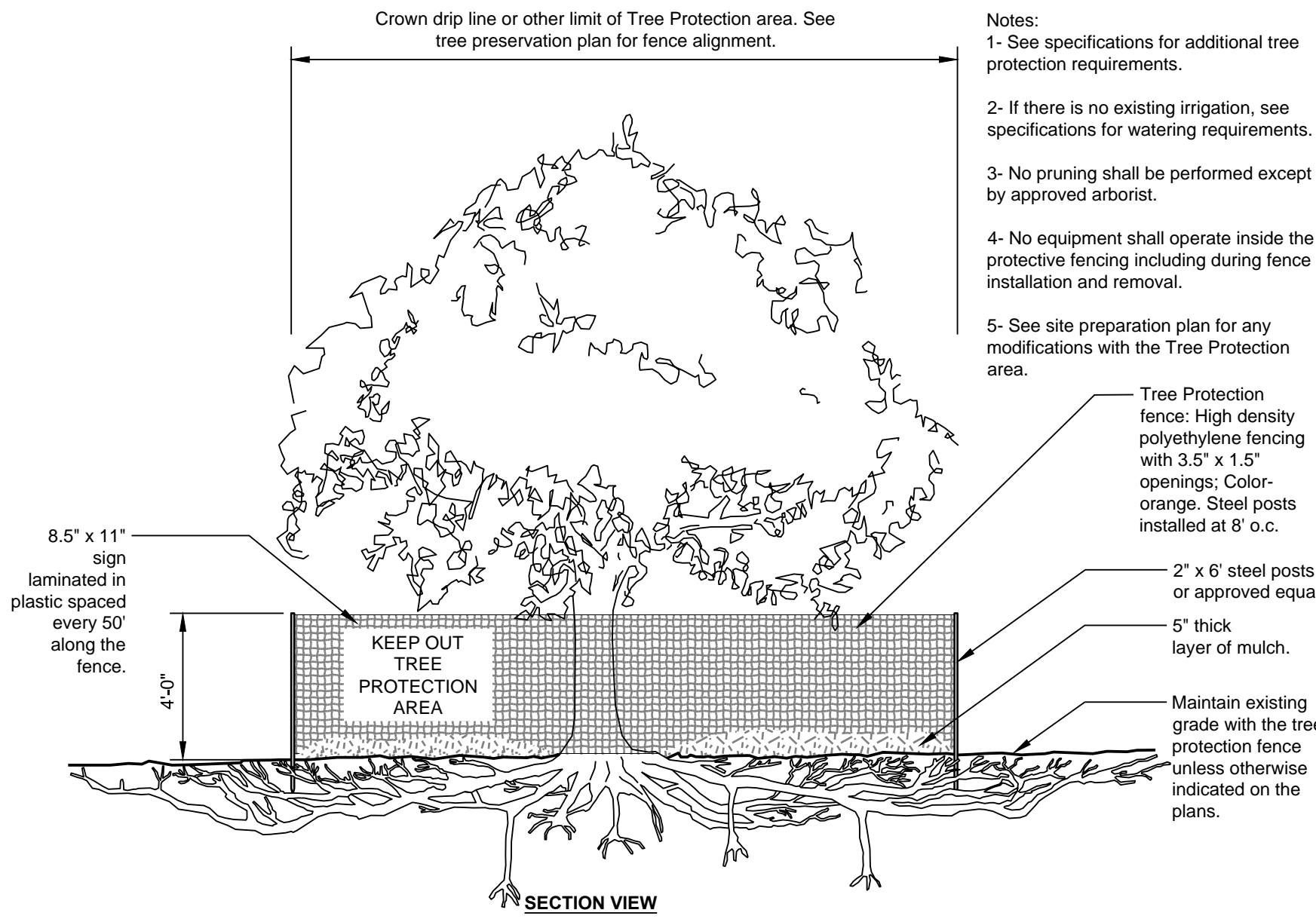
LANDSCAPE PLAN

SHEET NUMBER:

L-1

COMMENTS:  
NOT RELEASED FOR CONSTRUCTION

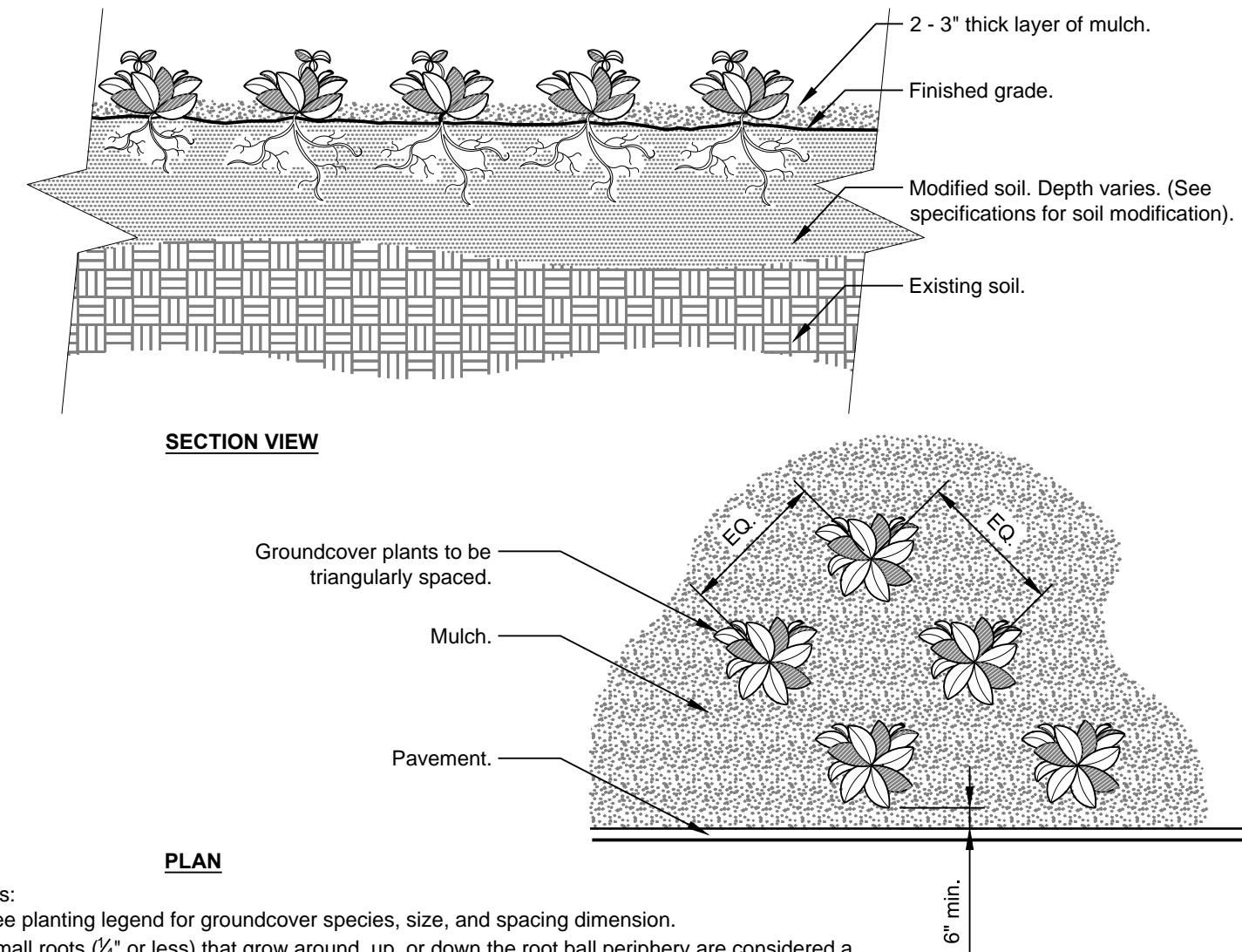




#### 4 TREE PROTECTION

1/4" = 1'-0"

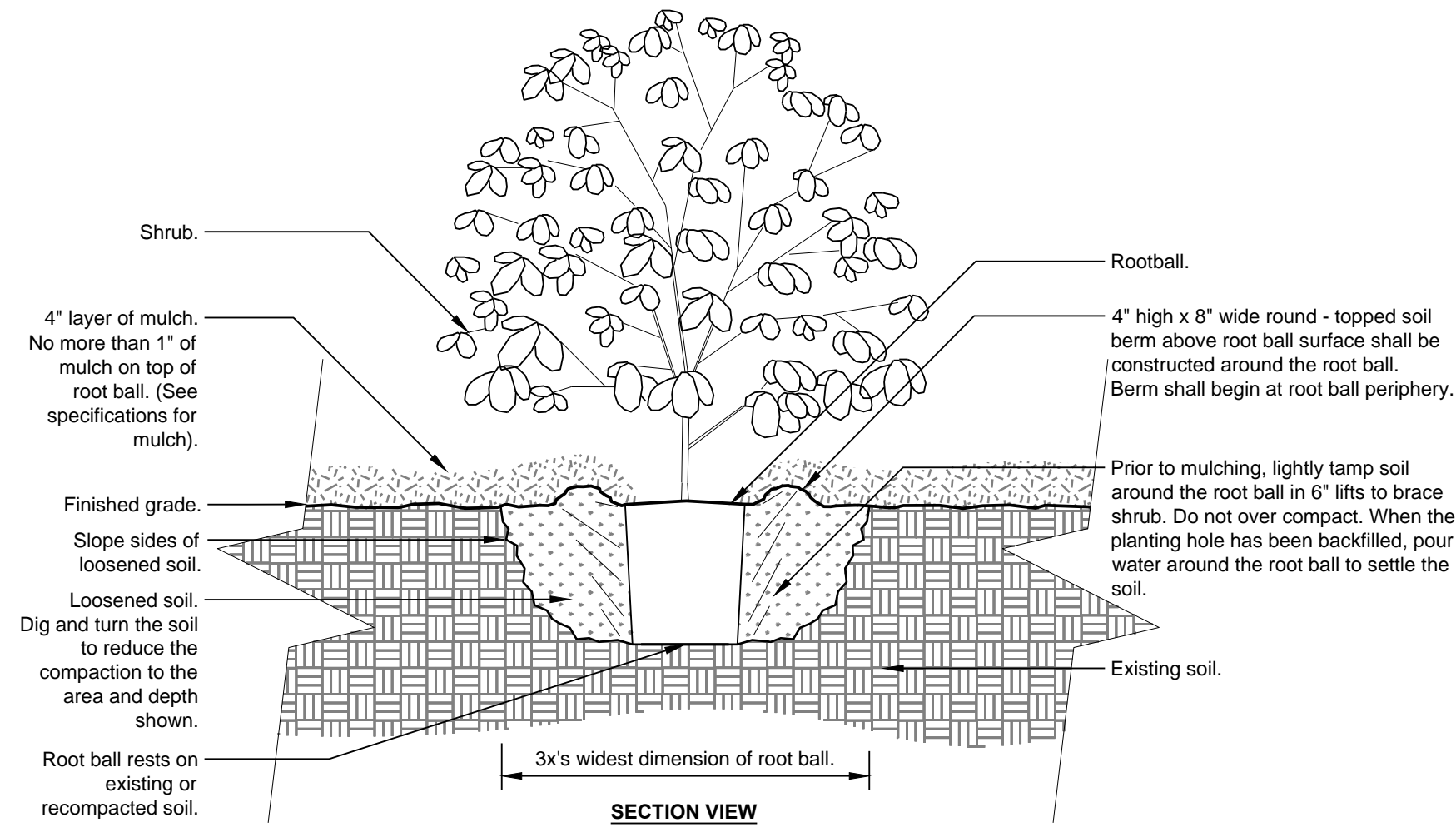
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#### 1 GROUNDCOVER

3/4" = 1'-0"

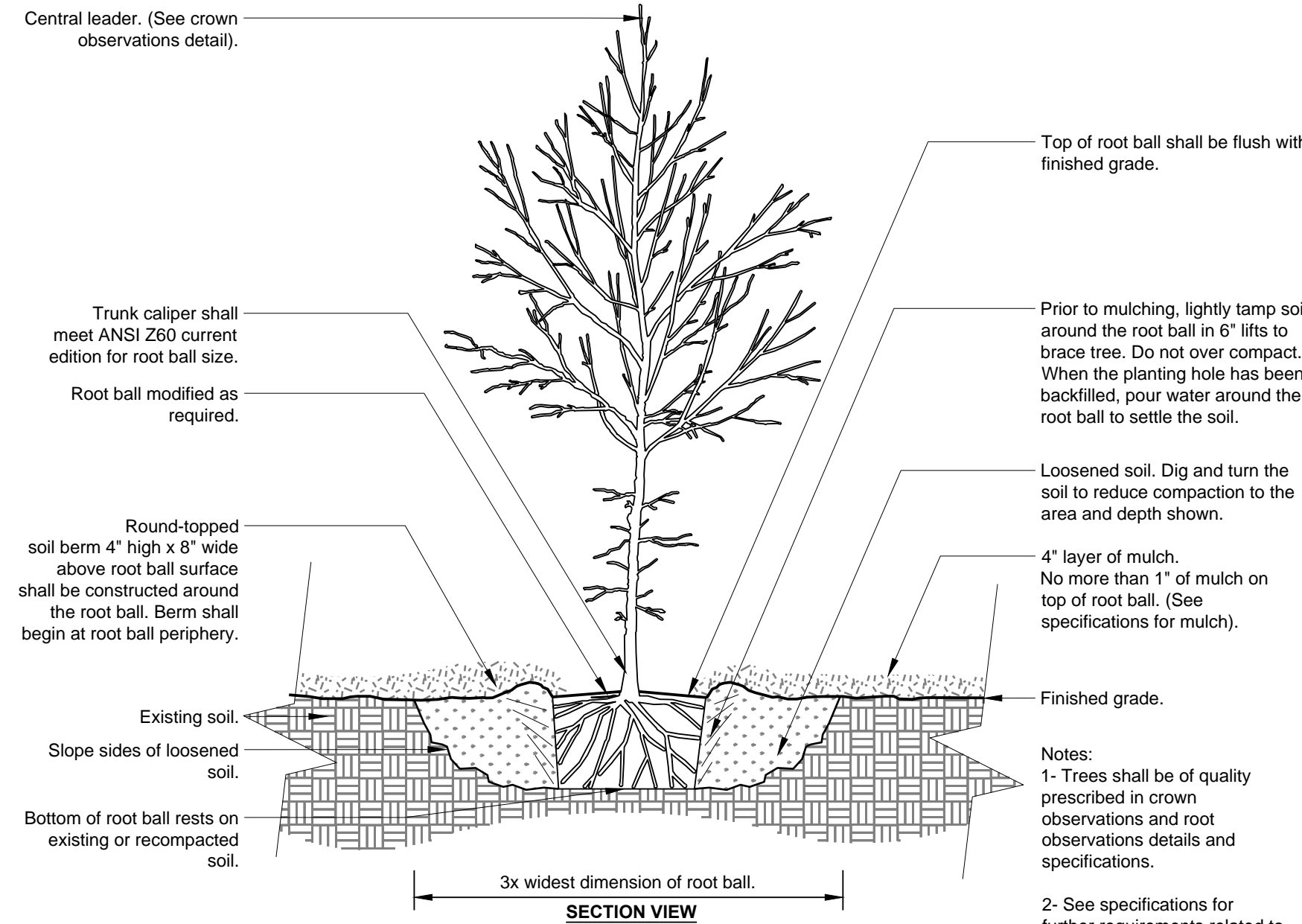
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#### 2 SHRUB - UNMODIFIED SOIL

3/4" = 1'-0"

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#### 3 TREE W/ BERM (EXISTING SOIL NOT MODIFIED)

1/2" = 1'-0"

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STANDARD 13,225-LEFT  
CHAMFER DRIVE-THRU  
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JOB NUMBER: 163.257

TITLE:

LANDSCAPE DETAILS

SHEET NUMBER:

L-2

COMMENTS:  
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